

April 13, 2005  
**PN 14BP.06152.03.0222**

Mr. Andrew Ngumbs  
Los Angeles County Department of Public Works  
Environmental Programs Division  
900 South Freemont Avenue  
Third Floor Annex Building  
Alhambra, California 91803-1331

**Re: Underground Storage Tank Removal and Closure Report**  
**ARCO Facility 06152**  
**24018 Lyons Avenue**  
**Newhall, California 91321**  
**Closure Permit Number 429553**  
**File Number I-858-37155**

Dear Mr. Ngumbs:

On behalf of Atlantic Richfield Company (Atlantic Richfield), SECOR International Incorporated (SECOR) has prepared the following report documenting the underground storage tank (UST) removal activities conducted at ARCO Facility 06152 (site) located at 24018 Lyons Avenue Newhall, California. Discussions of site description, geologic and hydrogeologic setting, summary of field activities, soil sample analytical data, and summary of findings are included in this report.

#### **SITE DESCRIPTION**

The site is located in the City of Newhall, California, on the southeast corner of De Wolfe Road and Lyons Avenue (Figure 1). The site is situated at an elevation of approximately 1,275 feet above mean sea level (amsl). Local topography slopes to the northeast at approximately 0.011 feet per foot (USGS, 1988). The site is roughly square in shape with approximately 150 feet fronting Lyons Avenue and 130 feet fronting De Wolfe Road. The site formerly included four 10,000-gallon double-walled fiberglass USTs containing various grades of unleaded gasoline and two dispenser islands. A station building is located near the southeast corner of the site. A waste oil UST was formerly located to the south of the facility building (Figure 2).

#### **REGIONAL GEOLOGY/HYDROGEOLOGY**

The site is located in the Soledad Basin subarea within the Transverse Ranges Geomorphic Province. The Soledad Basin is bounded on the east and southeast by the San Gabriel Mountains, and on the west and southwest by the Santa Susanna Mountains. The Soledad Basin is bound by the Tehachapi Mountains to the north. Sediments encountered beneath the site are composed of recent alluvium overlying late Pleistocene unconsolidated stream-deposited alluvial sediments. These sediments overlay the Saugus and Pico Formations. The Saugus Formation is a Plio-Pleistocene age fluvial sedimentary unit deposited by the ancestral Santa Clara River (Dibblee, 1996).

Hydrologically, the site is located within the eastern subbasin of the Santa Clara River Valley Groundwater Basin. The South Fork of the Santa Clara River is located approximately 700 feet east of the site. The tributary flows northerly and joins the greater Santa Clara River approximately three miles north of the site. Groundwater in the vicinity of the site is estimated to be greater than 150 feet below ground surface (bgs).

## POTENTIAL RECEPTORS

According to the Geographic Environmental Information Management System (GEIMS) database accessed via the Geotracker website (<http://geotracker.swrcb.ca.gov/>), and according to information provided by the LACDPW, there are no municipal supply wells located within a one-mile radius of the site. According to the LACDPW Division of Hydrologic Records, there are three observation/irrigation wells located within one mile of the site. Observation Well No. 5842F is located approximately 800 feet east of the site, with a groundwater depth of 121.0 feet bgs, as measured on November 12, 2002. Observation Well No. 5841 is located approximately 3,600 feet north-northwest of the site, with a groundwater depth of 152.0 feet bgs, as measured on November 12, 2002. A golf course irrigation well (Well No. 5831) is located approximately 3,500 feet west-northwest of the site, with a groundwater depth of 134.3 feet bgs, as measured on November 12, 2002. Well locations are shown on Figure 1.

## SUMMARY OF FIELD ACTIVITIES

Between November 8 and December 8, 2004, the site underwent demolition. Field activities included the excavation and removal of four 10,000-gallon double-walled fiberglass USTs, two dispenser islands with four product dispensers, and associated product piping. The facility building and canopies were not removed.

All excavation activities were conducted by Glenn F. Barton (Barton), under contract to Atlantic Richfield. South Coast Air Quality Management District (SCAQMD) Rule 1166 monitoring and soil sampling activities were conducted by SECOR. Prior to the commencement of field activities, a UST closure permit and a SCAQMD Reference Number were obtained by Barton. A copy of the UST closure permit is included as Appendix A. SCAQMD Rule 1166 Mitigation Plan Number 429325 with Reference Number 89949 is included as Appendix B.

### SCAQMD Rule 1166 Soil Monitoring

During soil and pea gravel excavation, handling and sampling, volatile organic compounds (VOCs) were monitored in 15-minute intervals using a Mini-Rae 2000 Photoionization detector (PID) calibrated to 100 parts per million (ppm) Hexane. SECOR personnel monitored VOC concentrations 3-inches above the excavated pea gravel and soil. The PID readings measured during the excavation activities are included in the SCAQMD Rule 1166 monitoring records provided in Appendix B. Soil and pea gravel excavated during the UST, product dispenser and product piping removal activities was temporarily stockpiled on site.

### UST, Product Dispenser and Associated Product Piping Removal

On November 15, 2004, four 10,000-gallon double-walled fiberglass gasoline USTs were removed from the site under the Los Angeles County Department of Public Works (LACDPW) Permit Number 429553, File Number I-858-37155. Prior to removal of the UST system, the product and vapor recovery lines were back-flushed with water into the gasoline USTs. The USTs were triple rinsed and pumped dry by Adams Services Incorporated (Adams) and rendered inert

by adding dry ice in accordance with State and local regulatory requirements. The Marine Chemist Certificate is provided in Appendix C. All rinsate water, removed from the USTs, was transported to DeMenno/Kerdoon in Compton, California for disposal by Adams under Uniform Hazardous Waste Manifest Number 23861784, provided as Appendix D.

The USTs were identified in the field as follows:

- UST # 1 - 10,000 gallon gasoline UST, UL#20566A
- UST # 2 - 10,000 gallon gasoline UST, UL#20572A
- UST # 3 – 10,000 gallon gasoline UST, UL#20572A
- UST # 4 – 10,000 gallon gasoline UST, UL#20572A

The USTs were removed from the excavation and loaded onto flatbed trucks for transportation off site. Upon removal, the USTs were inspected for structural integrity and were determined to be in good condition, with no evidence of holes, cracks, pits, leaks, or stains. Underwriter Laboratory (UL) numbers were identified on the USTs, as indicated above. The USTs were transported to Waste Reduction Systems in Long Beach, California for recycling. The certificate of tank disposal is provided as Appendix E.

### **Soil Sampling**

On November 15<sup>th</sup> and 23<sup>rd</sup>, 2004, SECOR personnel collected soil samples from approximately two feet (approximately 17 feet bgs) beneath each end of the former USTs (T-1A and T-1B through T-4A and T-4B), and from approximately 2 feet beneath the former product dispensers (D-1 through D-4) and former product piping (PL-1 through PL-7) under the direction of Inspector Tom Custard of the LACDPW. Soil samples were collected and prepared in accordance with Environmental Protection Agency (EPA) Method 5035 using 5 gram EnCore™ samplers, labeled, and placed in an ice-filled cooler for preservation. The soil samples were then transferred under chain-of-custody protocol to Del Mar Analytical (Del Mar) of Irvine, California, an Atlantic Richfield approved California Department of Health Services (DHS) certified hazardous waste laboratory. Soil sample locations are shown on Figure 2.

The soil samples were labeled using the following scheme:

- T-1A = UST # 1 Sample number 1A
- D-1-2 = Dispenser Sample number 1, collected 2 feet bgs
- PL-1-2 = Product Line Sample number 1, collected 2 feet bgs

## **SAMPLE ANALYTICAL RESULTS**

### **Soil Analytical Results**

All soil samples were analyzed for the presence of gasoline range organics C<sub>4</sub> – C<sub>12</sub> (GRO) according to EPA Method 5035B/8015M (modified), and for benzene, toluene, ethylbenzene, total xylenes (collectively BTEX), methyl tertiary butyl ether (MTBE), di-isopropyl ether (DIPE), ethyl tert-butyl ether (ETBE), tert-amyl methyl ether (TAME), tertiary butanol (TBA), and ethanol according to EPA Method 5035/8260B.

Soil samples collected from the UST excavation contained a maximum concentration of 0.88 J milligrams per kilogram (mg/kg) GRO (J indicates an estimated value above the laboratory method detection limit [LMDL] but below the laboratory reporting limit [LRL]). Concentrations of GRO, benzene, toluene, MTBE, DIPE, ETBE, TAME, TBA, and ethanol were not detected above the LRL in any UST soil sample analyzed. Analytical results of soil samples collected beneath the former dispensers and product piping indicated that concentrations of GRO, BTEX, MTBE, DIPE,

ETBE, TAME, TBA and ethanol were not detected above the LMDL. Certified Laboratory Analytical Reports and Chain-of-Custody documentation is provided in Appendix F.

### **Equipment Blank Analytical Results**

Equipment blank (EB) water samples were collected and analyzed for the presence of GRO according to EPA Method 8015M, and for BTEX, MTBE, DIPE, ETBE, TAME, TBA, and ethanol according to EPA Method 8260B.

Analytical results from EB samples analyzed detected concentrations of 25 J (estimated) micrograms per liter ( $\mu\text{g/L}$ ) GRO, 0.40 J  $\mu\text{g/L}$  benzene and 0.93 J  $\mu\text{g/L}$  toluene. No concentrations of GRO, BTEX, MTBE, DIPE, ETBE, TAME, TBA or ethanol were detected above the LRL (Table 2).

### **SUMMARY OF BACKFILL COMPACTION**

#### **UST Excavation Backfilling Activities**

Soil and pea gravel excavated during the UST removal process was stockpiled on site to facilitate the removal of the four USTs. Since GRO, benzene, toluene, MTBE, DIPE, ETBE, TAME, TBA, and ethanol were not detected above the LRL in any UST soil sample analyzed, the excavated pea gravel and soil were used as backfill material. Prior to backfilling activities, the UST excavation measured approximately 37 feet wide by 59 feet long and 10 feet deep. On December 7 and 8, 2004, the excavation was backfilled and compacted using the stockpiled pea gravel/soil and imported light brown, silty sand. The compaction testing was performed by GEOBASE, Incorporated (GEOBASE) of Laguna Hills, California. Fill soils were placed in approximately eight inch lifts, brought to near optimum moisture content and compacted with a track loader. The backfill soils were compacted to a minimum of ninety percent of the maximum dry density, where tested, as determined by ASTMD 1557 (GEOBASE, 2004). The GEOBASE compaction test report is provided in Attachment G.

### **SUMMARY OF FINDINGS**

- Site demolition was performed November 8<sup>th</sup> through December 8<sup>th</sup>, 2004.
- On November 15, 2004, four 10,000-gallon gasoline USTs, four product dispensers and associated product piping were excavated and removed from the site by Barton.
- On November 15<sup>th</sup> and 23<sup>rd</sup>, 2004, SECOR personnel collected a total of 19 soil samples from beneath the former USTs, former product dispensers and product piping under the direction of the LACDPW.
- Analytical results of soil samples collected from the UST excavation indicated that concentrations of GRO, benzene, toluene, MTBE, DIPE, ETBE, TAME, TBA and ethanol were not detected above the LRL.
- Analytical results of soil samples collected beneath the product dispensers and product piping indicated that concentrations of GRO, BTEX, MTBE, DIPE, ETBE, TAME, TBA and ethanol were not detected above the LRL.
- All excavated soil and pea gravel was stockpiled on-site and used as backfill for the UST excavation on December 7 and 8, 2004. Imported soil was used to fill the remaining excavation. The backfill material was compacted to a minimum relative compaction of 90 percent.

## LIMITATIONS

This report has been prepared for the exclusive use of Atlantic Richfield and its representatives as it pertains to the property located at 24018 Lyons Avenue, Newhall, California. Evaluations of the geologic conditions at the site for the purpose of this investigation are inherently limited due to the number of observation points. There may be variations in the subsurface conditions in areas away from the sample points. There are no representations, warranties, or guarantees that the points selected for sampling are representative of the entire site. Data from this report reflects the conditions at specific locations at a specific point in time. No other interpretations, warranties, guarantees, expressed or implied, are included or intended in the report findings.

All work was performed under the supervision of a State of California Professional Engineer as defined in the Registered Geologist Act of the California Code of Regulations. The information contained in this report represents SECOR's professional opinions, and is based in part on information supplied by the client. These opinions are based on currently available information and are arrived at in accordance with currently accepted hydrogeologic and engineering practices at this time and location.

If you have any questions regarding the contents of this report, please call Ms. Cathy Sanford at (714) 379-3366, extension 276.

Sincerely,  
**SECOR International Incorporated**

*Carrie Salenko*

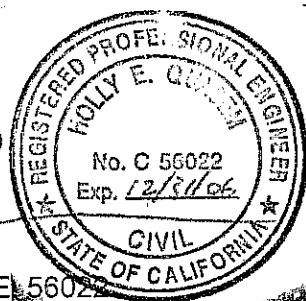
Carrie Salenko  
Staff Scientist

*Cathy Sanford*

Cathy Sanford  
Associate Geologist

*Holly Quasem*

Holly Quasem, P.E.  
Senior Engineer



Attachments: Figure 1 -- Site Location Map Showing Wells Within a One-Mile Radius  
Figure 2 -- Site Map Showing Soil Sample Locations

Table 1 -- Soil Analytical Data  
Table 2 -- Equipment Blank Water Analytical Data

Appendix A -- Los Angeles County UST Closure Permit Number 429553  
Appendix B -- SCAQMD Rule 1166 Mitigation Plan 429325 and

Reference Number 89949

Appendix C -- Marine Chemist Certificate

Appendix D -- UST Rinsate Waste Water Manifest

Appendix E -- Certificate of Tank Disposal

Appendix F -- Certified Laboratory Analytical Reports and  
Chain-of-Custody Documentation

Appendix G -- Compaction Testing Report

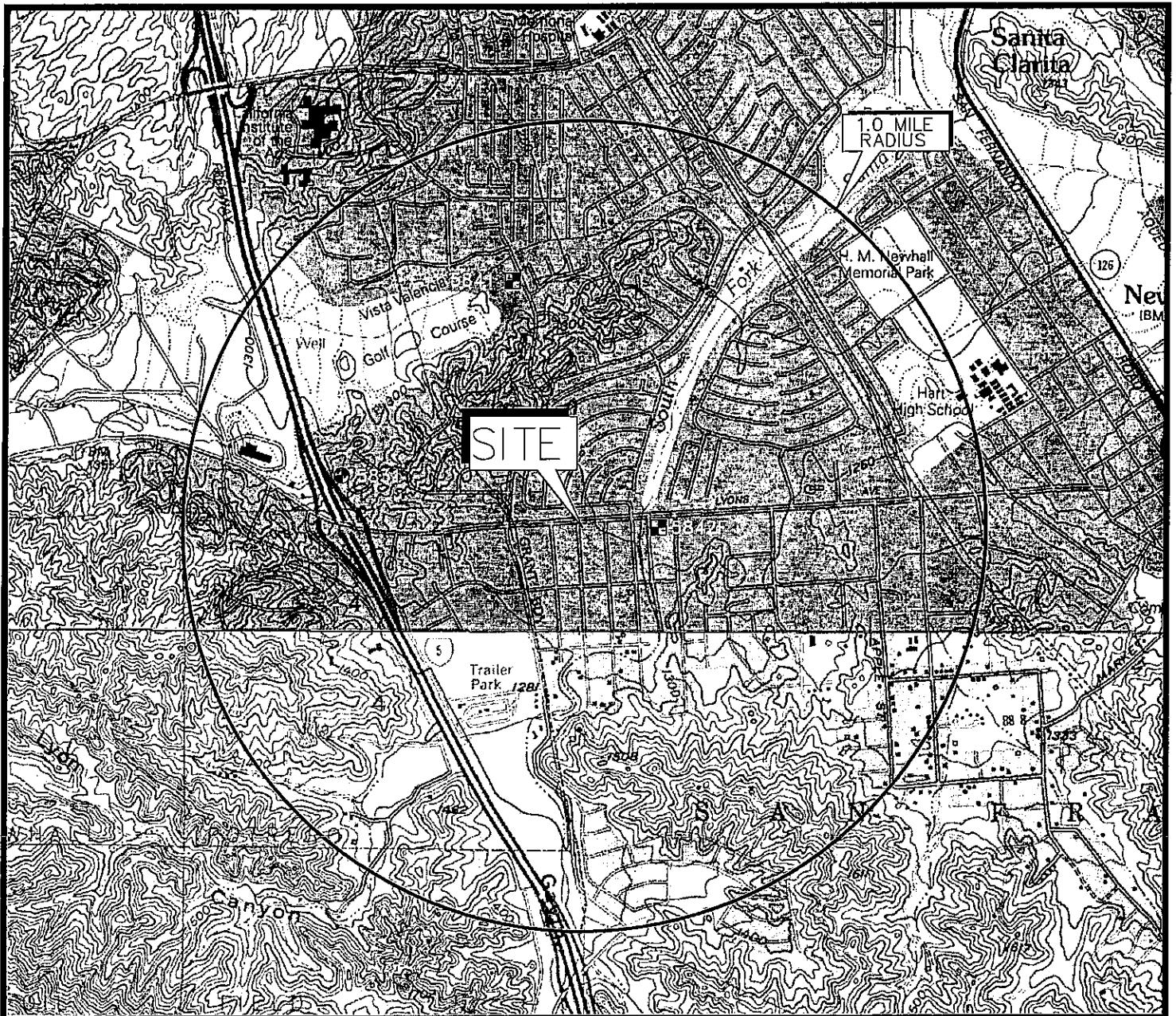
cc: Mr. Roy Thun, Atlantic Richfield Company  
Mr. Jack Oman, Atlantic Richfield Company

## **REFERENCES**

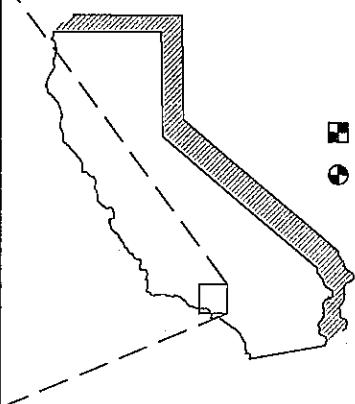
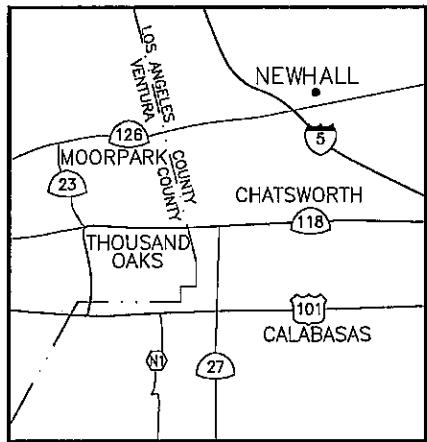
Dibblee, 1996. *Geologic Map of the Newhall Quadrangle*, Los Angeles County, California.  
Dibblee, Thomas W. Jr, Edited by Helmut E. Ehrenspeck.

GEOBASE, 2004. *Compaction Report on Backfill of Excavations*, ARCO Facility No. 6152,  
24018 Lyons Avenue, Newhall, California, GEOBASE Incorporated. December 10.

USGS, 1988, *Newhall Quadrangle*, 7.5 minute topographic, United States Geological Survey  
1952 photorevised 1988.



SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAP, NEWHALL QUADRANGLE, 1952  
PHOTOREVISED 1988  
OAT MOUNTAIN QUADRANGLE, 1952  
PHOTOREVISED 1969

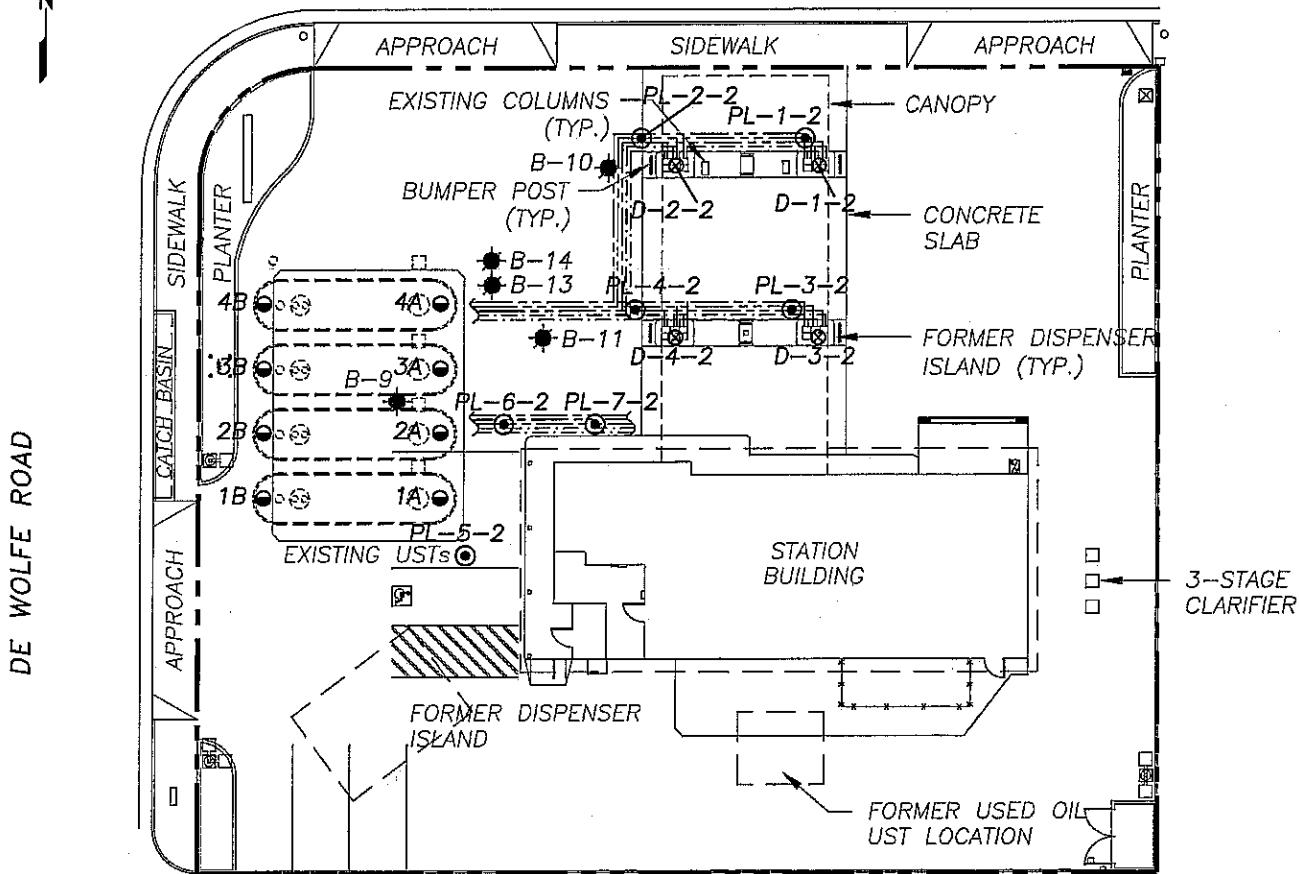


■ OBSERVATION WELL  
● IRRIGATION WELL

0 2000 4000  
APPROXIMATE SCALE IN FEET

 <b>SECOR</b> 11085 KNOTT AVENUE, SUITE B CYPRESS, CALIFORNIA PHONE: (714)379-3366/FAX: (714)379-3375	PREPARED FOR: <b>ATLANTIC RICHFIELD COMPANY</b> FACILITY 06152 24018 LYONS AVENUE NEWHALL, CALIFORNIA	<b>SITE LOCATION MAP SHOWING WELLS WITHIN A ONE-MILE RADIUS</b>		FIGURE:
		JOB NUMBER: 14BP.06152.01.0222	DRAWN BY: L. RAMIREZ	CHECKED BY: C. SALENO
				APPROVED BY: C. SANFORD
				DATE: FEBRUARY 2005

# LYONS AVENUE



**SECOR**  
11085 KNOTT AVENUE, SUITE B  
CYPRESS, CALIFORNIA  
(805) 230-1266

PREPARED FOR:  
ATLANTIC RICHFIELD COMPANY  
FACILITY 06152  
24018 LYONS AVENUE  
NEWHALL, CALIFORNIA

## SITE MAP SHOWING SOIL SAMPLE LOCATIONS

FIGURE:  
**2**

JOB NUMBER:  
14BP.06152.01.0222

DRAWN BY:  
L.RAMIREZ

CHECKED BY:  
C. SALENKO

APPROVED BY:  
C. SANFORD

DATE:  
JANUARY 2005

**Table 1**  
**Soil Analytical Data**  
**ARCO Facility 06152**  
**24018 Lyons Avenue**  
**Newhall, California**

SAMPLE ID.	SAMPLE DEPTH feet bgs	SAMPLE DATE	GRO mg/kg	BENZENE mg/kg	ETHYL BENZENE mg/kg	TOLUENE mg/kg	XYLENES mg/kg	TOTAL XYLENES mg/kg	MTBE mg/kg	DIPE mg/kg	ETBE mg/kg	TAME mg/kg	TBA mg/kg	ETHANOL mg/kg
<b>Former UST Excavation Soil Samples Analyzed by EPA Method 8015 and 8260B.</b>														
T-1A	17	11/15/2004	<0.86	<0.0017	<0.0017	<0.0016	<0.0016	<0.0034	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043	<0.26
T-1B	17	11/15/2004	<0.84	<0.0016	<0.0016	<0.0026	<0.0020	<0.011	<0.0050	<0.0050	<0.0050	<0.0050	<0.041	<0.25
T-2A	17	11/15/2004	0.88 J	<0.0020	<0.0016	<0.0016	<0.0016	<0.0033	<0.0041	<0.0041	<0.0041	<0.0041	<0.0041	<0.30
T-2B	17	11/15/2004	<0.88	<0.0016	<0.0016	<0.0020	<0.0020	<0.0040	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.25
T-3A	17	11/15/2004	<1.0	<0.0020	<0.0020	<0.0020	<0.0020	<0.0040	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.30
T-3B	17	11/15/2004	0.18 J	<0.0020	<0.0020	<0.0020	<0.0020	<0.0040	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.30
T-4A	17	11/15/2004	<0.83	<0.0020	<0.0020	<0.0020	<0.0020	<0.0040	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.30
T-4B	17	11/15/2004	<1.0	<0.0020	<0.0020	<0.0020	<0.0020	<0.0040	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.30
<b>Former Dispenser Soil Samples Analyzed by EPA Method 8015 and 8260B.</b>														
D-1-2	2	11/15/2004	<0.87	<0.0020	<0.0020	<0.0020	<0.0020	<0.0040	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.30
D-2-2	2	11/15/2004	<1.0	<0.0020	<0.0020	<0.0020	<0.0020	<0.0040	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.30
D-3-2	2	11/15/2004	<0.89	<0.0017	<0.0017	<0.0017	<0.0017	<0.0034	<0.0043	<0.0043	<0.0043	<0.0043	<0.043	<0.26
D-4-2	2	11/15/2004	<0.84	<0.0017	<0.0017	<0.0017	<0.0017	<0.0034	<0.0043	<0.0043	<0.0043	<0.0043	<0.043	<0.26
<b>Former Product Piping Soil Samples Analyzed by EPA Method 8015 and 8260B.</b>														
PL-1-2	2	11/15/2004	<0.90	<0.0017	<0.0017	<0.0016	<0.0016	<0.0035	<0.0043	<0.0043	<0.0043	<0.0043	<0.043	<0.26
PL-2-2	2	11/15/2004	<0.89	<0.0016	<0.0018	<0.0018	<0.0018	<0.0033	<0.0041	<0.0041	<0.0041	<0.0041	<0.041	<0.25
PL-3-2	2	11/15/2004	<0.85	<0.0018	<0.0018	<0.0018	<0.0018	<0.0035	<0.0044	<0.0044	<0.0044	<0.0044	<0.044	<0.26
PL-4-2	2	11/15/2004	<0.89	<0.0018	<0.0018	<0.0018	<0.0018	<0.0036	<0.0045	<0.0045	<0.0045	<0.0045	<0.045	<0.27
PL-5-2	2	11/23/2004	<0.84	<0.0017	<0.0017	<0.0017	<0.0017	<0.0034	<0.0043	<0.0043	<0.0043	<0.0043	<0.043	<0.26
PL-6-2	2	11/23/2004	<1.0	<0.0020	<0.0020	<0.0020	<0.0020	<0.0040	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.30
PL-7-2	2	11/23/2004	<0.89	<0.0017	<0.0017	<0.0017	<0.0017	<0.0033	<0.0042	<0.0042	<0.0042	<0.0042	<0.042	<0.25

Notes:

GRO = Gasoline Range Organics C<sub>4</sub> to C<sub>12</sub>

MTBE = Methyl Tertiary Butyl Ether

DIPE = Di-isopropyl Ether

ETBE = Ethyl Tertiary Butyl Ether

TAME = Tertiary Amyl Methyl Ether

TBA = Tertiary Butanol

bgs = below ground surface

mg/kg = milligrams per kilogram

< 0.87 = below reporting limit and method detection limit

J = estimated value (below laboratory reporting limit and above method detection limit)

**Table 2**  
**Equipment Blank Water Analytical Data**  
**ARCO Facility 06152**  
**24018 Lyons Avenue**  
**Newhall, California**

SAMPLE I.D.	SAMPLE DEPTH feet bgs	SAMPLE DATE	GRO µg/L	BENZENE µg/L	ETHYL BENZENE µg/L	TOLUENE µg/L	TOTAL XYLEMES µg/L	MTBE µg/L	DIPE µg/L	ETBE µg/L	TAME µg/L	TBA µg/L	ETHANOL µg/L
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**Equipment Blank Water Samples Analyzed by EPA Method 8015 and 8260B.**

EB-6152-20041115	NA	11/15/2004	<50	<2.0	<2.0	<4.0	<5.0	<5.0	<5.0	<5.0	<5.0	<50
EB-6152-20041123	NA	11/23/2004	25 J	0.40 J	<2.0	0.93 J	<4.0	<5.0	<5.0	<5.0	<5.0	<50

**Notes:**

GRO = Gasoline Range Organics C<sub>4</sub> to C<sub>12</sub>.

MTBE = Methyl Tertiary Butyl Ether

DIPE = Di-isopropyl Ether

ETBE = Ethyl Tertiary Butyl Ether

TAME = Tertiary Amyl Methyl Ether

TBA = Tertiary Butanol

bgs = below ground surface

µg/L = micrograms per liter

< 50 = below reporting limit and method detection limit

J = estimated value (below laboratory reporting limit and above method detection limit)

NA = not applicable

## **APPENDIX A**

**Los Angeles County UST Closure Permit  
Number 429553**



APPLICATION FOR CLOSURE  
FOR HAZARDOUS MATERIALS UNDERGROUND STORAGE TANKS  
COUNTY OF LOS ANGELES, DEPARTMENT OF PUBLIC WORKS  
Environmental Programs Division  
900 South Fremont Avenue, 3rd Floor Annex Building  
Alhambra, CA 91803-1331  
Ph No. (626) 458-3517 Fax No. (626) 458-3569  
[www.ladpw.org/epd](http://www.ladpw.org/epd)

SITE FILE NO.	AP.	ATION NO.	429 553
CHECK [ ]	CASH [ ]	OTHER [ ]	
FEE \$	614.00		

TANK OWNER: Contact Name: ARC O Phone: 7146205300  
Mailing Address: 4 Contenport City: L.A. Palms State: CA Zip: 90623-1066  
FACILITY/SITE: Occupant Name: ANCO #6152 Phone: \_\_\_\_\_  
Site Address: 24108 Lymore Ave City: Newhall State: CA Zip: 91352  
Mailing Address: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
Contact Person: \_\_\_\_\_ Title: \_\_\_\_\_

CONTRACTOR [ ] Contractor Name: Glenn F. BARTON OWNER/OPERATOR AS CONTRACTOR [ ] Phone: 323 636 1771  
State License No.: 507502 Class: A-B-C-D-E-H-Z  
Hazardous Substance Removal Certified: YES [x] NO [ ]

CLOSURE REQUESTED: Closure of Underground Storage Tanks (USTs) shall be in compliance with California Health and Safety Code Chapter 6.7, Section 25298, and California Code of Regulations Title 23, Division 3, Chapter 16, Sections 2670 through 2672.

- [x] PERMANENT, UST REMOVAL (See Section 2672(b))  
How many underground storage tanks will remain after this closure? \_\_\_\_\_  
[ ] PERMANENT, CLOSURE IN PLACE (See Section 2672(c)) - Attach Justification Statement  
[ ] TEMPORARY, (See Section 2671)  
[ ] Other: \_\_\_\_\_

PLOT PLAN ATTACHED [ ] Showing existing tanks product piping & dispenser locations EXISTING HMUSP NO.: \_\_\_\_\_  
UST DESCRIPTION:

UST NO.	UST ID NO. (DPW USE ONLY)	CAPACITY GALLONS	MATERIALS STORED (PAST/PRESENT)	CLOSURE APPLICATION FEE*
1		10-K	U.L.GAS	\$365.00
2		10K	U.L.GAS	448.00
3		10K	U.L.GAS	531.00
4		10K	LL.GAS	614.00
5				697.00
6 (+ ATTACH LIST)				\$282.00 + \$83.00/PER TANK =

\* Compliance with December 22, 1998 Standards. Non-compliant UST Closure fees are \$423.00 + \$125.00 per tank.

Has an unauthorized release ever occurred at this site? [ ]

Have structural repair ever been made to these tanks? [ ]

Will new underground storage tanks be installed after closure? [ ]

Will any wells, including monitoring wells, be abandoned? [ ]

YES [ ] NO [ ]  
YES [ ] NO [ ]  
YES [ ] NO [ ]  
YES [ ] NO [ ]

NOTICE: CONTAMINATED TANKS AND RESIDUES THAT MAY BE LEFT IN TANKS TO BE CLOSED, MAY BE HAZARDOUS WASTE WHICH MUST BE TRANSPORTED AND DISPOSED OF PURSUANT TO CHAPTER 6.5, CALIFORNIA HEALTH AND SAFETY CODE AND REPORTED IN THE CLOSURE REPORT. FAILURE TO COMPLY MAY BE PROSECUTED AS A FELONY VIOLATION.

By signature below the applicant certifies that all statements and disclosures above are true and correct and that they have read and agree to abide by this permit and all conditions and limitations attached.

Applicant's Signature Edd Siler  
(Print Name) Edd Siler

Date 10-28-04  
Phone 323 636 1771

Owner [ ] Operator [ ] Contractor [ ] AGENT

TO BE COMPLETED BY THE DEPARTMENT OF PUBLIC WORKS

PURSUANT TO SECTION 11.80.070B, LOS ANGELES COUNTY CODE, PERMISSION IS HEREBY GRANTED TO PROCEED WITH THE CLOSURE DESCRIBED ABOVE SUBJECT TO THE ATTACHED CONDITIONS AND LIMITATIONS. ATTACHMENTS YES [x] NO [ ]  
THIS AUTHORIZATION EXPIRES: 4/28/2005

JAMES A. NOYES  
Director of Public Works By: Andrew Ngumbu

Date: 10/28/2005

UNDERGROUND STORAGE TANK  
CLOSURE INFORMATION

1. This application is for authorization to temporarily or permanently close an underground storage tank (UST) pursuant to Los Angeles County Code, Title 11, Division 4 and California Code of Regulations, Title 23, Division 3, Chapter 16. This application may also be used for product piping removal associated with an existing or removed USTs.
2. This application will not be approved unless a valid Hazardous Material Underground Storage Permit (HMUSP) or Unified Program (UP) Permit application is on file with the Department of Public Works (DPW). HMUSP registration fees may be waived, if the DPW finds that the subject USTs have been continuously empty and out of service since January 1, 1984 or the owner or operator was never informed by DPW or any other agency of need to properly close USTs.
- 2A. Additional fees may be imposed for closure of UST's that were not in compliance with December 22, 1998, standards for upgrade or temporary closure.
3. USTs closed on site by removal or cleaning and filling with an inert solid material prior to January 1, 1984, need not comply with current closure requirements, however, leaks from such USTs must be reported and cleaned up.
4. This application must be accompanied by a UP USTs FACILITY form for each site and UP USTs TANK PAGE 1 and TANK PAGE 2 forms for each UST to be removed or closed.
5. All work shall be carried out in full compliance with all applicable Federal, State and local laws, ordinances, rules and regulations.
6. All fees due to DPW and/or to the Certified Unified Program Agency (CUPA) for the operation and/or maintenance of the facility subject to closure through the date of closure shall be paid.
7. All inspections notification(s) shall be made as directed by the attached conditions of this approval.
8. Within 30 days of the date of closure, the applicant shall furnish to the DPW a closure report describing all work completed, results of any required sampling, disposition of any contaminated soils or materials found and all other requirement made part of the closure application.
9. In all cases, closure permits expire 180 days from the date of issue unless otherwise specified. It is the responsibility of the owner to make sure that the final report contains the required information and is submitted to the DPW within one month from the sampling date or 180 days from the date of the permit issuance, whichever is earlier. The total number of tanks listed on the HMUSP or UP Permit and the yearly annual permit maintenance billing will remain unchanged until the closure report is received by the DPW. Only one copy of the closure report needs to be submitted unless otherwise directed.
10. All closure applications are site specific and may be subject to additional sampling and site characterization requirements as necessary to protect the public health and safety, underground and surface water supplies, and may include requirements, requested by Federal, State or other regulatory agencies.

DEPARTMENT OF PUBLIC WORKS  
ENVIRONMENTAL PROGRAMS DIVISION  
900 SOUTH FREMONT AVENUE  
ALHAMBRA, CA 91803-1331  
(626) 458-3517

CERTIFICATION OF COMPLIANCE WITH  
LOS ANGELES COUNTY LOBBYIST ORDINANCE

This is to certify that I, as permit applicant, for the project located at \_\_\_\_\_

LOCATION ADDRESS

am familiar with the requirements of Los Angeles County Code Chapter 2.160 et seq., (relating to the Los Angeles County Lobbyist Ordinance) and all persons acting on behalf of myself have complied and will continue to comply therewith through the application process.

*Edd S. Barton*

APPLICANT (PRINT NAME)

*Glenn J. Barton*

COMPANY NAME (If employed by an entity/agency)

*Edd S. Barton*

APPLICANT SIGNATURE

*10-28-04*

DATE

ENVIRONMENTAL PROGRAMS DIVISION

CLOSURE REPORT REQUIREMENTS

A closure report shall be submitted to the County of Los Angeles Department of Public Works, Environmental Programs Division, P.O. Box 1460, Alhambra, California 91802-1460, containing:

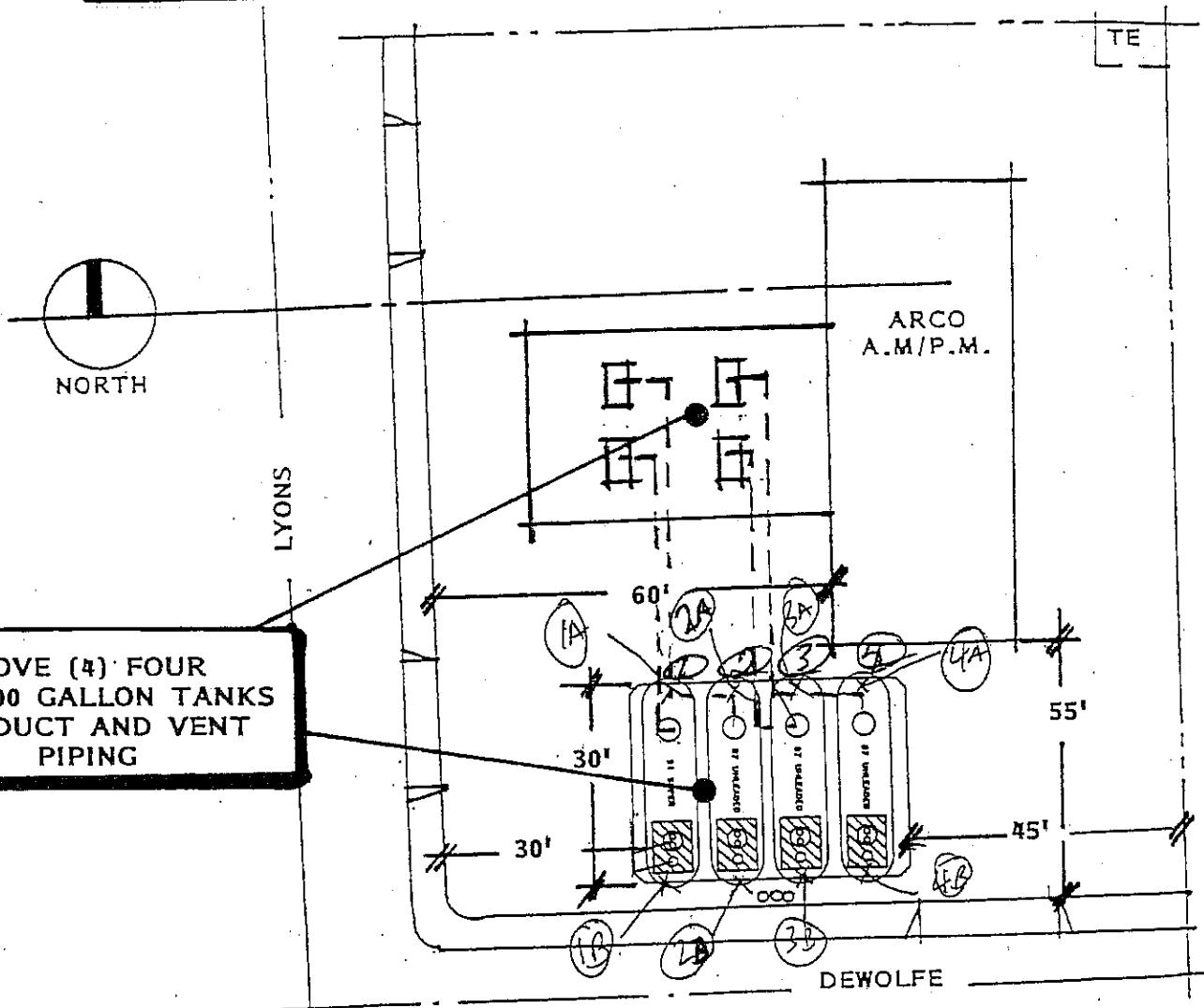
1. File number of facility and closure permit number.
2. Plot plan to scale showing locations of tanks, sampling points, buildings, adjacent streets, and north arrow.
3. Description of methods for obtaining, handling, and transporting samples.
4. Time and date samples were obtained.
5. Soil sampling certification (including but not limited to soils classification, boring logs, sample procedures, sample locations, initiating chain-of-custody, and groundwater location) for UST closure shall be certified by a California registered geologist, a California certified engineering geologist, or a California registered civil engineer with sufficient experience in soils. The certification must clearly state that all work was performed under the supervision of the person signing.
6. Chain-of-custody documentation initiated by person obtaining sample through person at a California Department of Health Services certified laboratory.
7. Disposal destination of tanks and evidence of legal disposal.
8. Analysis results by a State certified laboratory submitted on laboratory letterhead showing analysis date, methods of extraction, and methods of analysis.
9. Documentation as to depth of groundwater at facility.
10. Manifests to document hazardous waste disposal of any removed soil and tank rinsate.
11. Evidence of legal disposal of soils designated as nonhazardous.
12. Any observations of site contamination.
13. Remedial action plan to mitigate contamination.
14. Report to be signed by a California registered geologist, a California certified engineering geologist, or a California registered civil engineer with sufficient experience in soils.

Print Name Eld Siler

Signature Eld Siler

Date 10-23-05

PROJECT  
ARCO A.M/P.M.  
24018 LYONS AVE  
NEWHALL, CALIFORNIA  
91355



REMOVE (4) FOUR  
10,000 GALLON TANKS  
PRODUCT AND VENT  
PIPING

GLENN F. BARTON

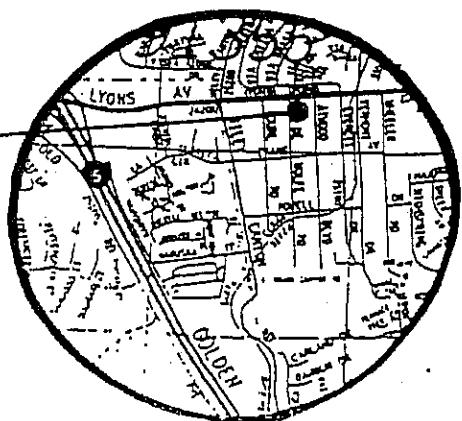
400 Galleon Way  
Seal Beach, California 90740  
(323) 636-1771  
(714) 827-7441  
(858) 268-8106  
(310) 537-9448 (FAX)

THOMAS BROS  
4640 F-1

REVIEWED AND NOTED

10.26.01

GLENN F. BARTON



CLOSURE PERMIT SUPPLEMENT  
 HAZARDOUS MATERIALS UNDERGROUND STORAGE  
 LOS ANGELES COUNTY  
 DEPARTMENT OF PUBLIC WORKS  
 WASTE MANAGEMENT DIVISION  
 900 S. FREMONT AVENUE  
 ALHAMBRA, CA 91803

Closure Permit  
 No.: 429553 B  
 File No.  
 I- 858-37155

PART 1 OF 2

To satisfy the permanent closure requirements for underground storage tanks previously storing hazardous materials, site integrity must be demonstrated by the analysis of soil samples and, if applicable, groundwater samples as outlined below. These requirements are in addition to the conditions listed on the Application for Closure or contained in an approved Closure Plan.

1. Samples shall be obtained at the sampling points (SP) indicated on the attached plot plan.
2. For each SP, samples shall be obtained at the following depths:

SP	Depth(s)	Compounds	Analysis Method
1A, 1B	2-4 ft below tank invert	TPH, BTEX, MTBE & fuel oxygenates	8015(m)
2A, 2B			8260B
3A, 3B			
4A, 4B		ethanol	8015(m) / 8260B
Sample	2-4 ft below product piping @ every 20 ft interval	II	II
Sample	2-4 ft below each removed dispenser	II	II
* EPA	method 5035 for soil sample collection & preservation must be utilized		

3. All soil samples obtained shall be discrete, undisturbed and unexposed prior to analysis. The method used to obtain the samples and the date of sampling shall be included in the final report.
4. If groundwater is encountered during sampling, a groundwater monitoring well shall be established at the most downgradient sampling point. The well shall be developed by removing a minimum of four well volumes and a groundwater sample shall be obtained and analyzed.
5. The analytical results for all soil samples shall be expressed milligrams per kilogram (mg/kg), or micrograms per kilogram (ug/kg) as appropriate. Practical quantitation limits of 5-10 ug/kg (ppb) for volatile organics and 1 mg/kg (ppm) for the petroleum hydrocarbons must be achieved by the laboratory. Analytical results for groundwater samples shall be expressed in ug/l (ppb) and practical quantitation limits of .5-5 ug/l (ppb) for volatile organics, and 1 mg/l (ppm) for petroleum hydrocarbons must be achieved by the laboratory.
6. Analytical results shall be reported on laboratory letterhead and shall include the following information: a) The date the analysis was conducted; b) The method of extraction (if applicable); c) Detection limits for each analytical procedure and determination; d) The method of analysis; e) Signature of chemist certifying results.
7. All soil/groundwater samples obtained shall be handled and transported to laboratory in strict accordance with applicable EPA regulations utilizing chain-of-custody procedures. Chain-of-custody documentation shall be included in the final report.
8. If the soil/groundwater analysis indicates undefined contamination at the facility, additional sampling shall be required to define the vertical and lateral extent present.
9. A final report that contains all of the above required information shall be submitted to the office above within one (1) month from the sampling date or 180 days from the date of this permit, whichever is earlier.

## CLOSURE -- UNDERGROUND STORAGE TANKS

### CONDITIONS A - GENERAL

1. Closures shall be carried out such that all applicable regulations from the following agencies are complied with: Los Angeles County, Department of County Engineer – Facilities; Los Angeles County Fire Department, Fire Prevention Division or the appropriate City Fire Department; South Coast Air Quality Management District; and Los Angeles County Department of Health Services.
2. The County Engineer and Fire Departments shall be notified in advance of any closure in accordance with the following:
  - a. Removal of tank shall require a three (3)-business day advance notification.
  - b. Permanent closure of a tank in place or a temporary closure shall require a 30-written notification.
3. Consult current fee schedule for costs.
4. All abandoned wells shall be destroyed in such a way that they will not produce water, or act as a channel for interchange of water, when such interchange may result in deterioration of the quality of water in any or all water bearing formations penetrated, or present a hazard to the safety and well-being of people and animals.
5. A well destruction permit issued by the Los Angeles Department of Health Services shall be required for all wells requiring a permit for their initial construction.
6. Well destruction shall be accomplished according to methods described in the latest "Water Well Standards: State of California" by the Department of Water Resources, contained in Bulletin 74 - 81, December 1981, or any other methods that will provide equivalent or better protection.
7. Plans for the decontamination of a facility shall be submitted to the County Engineer for approval no later than 30 days before the commencement of such operations. Other agencies having jurisdiction shall also be notified. These agencies the California Regional Water Quality Board, the Los Angeles County Department of Health Services, and the South Coast Air Quality Management District.
8. Decontamination shall require the following, as a minimum:
  - a. Cleaning operation shall be done under the supervision of persons who understand the hazardous potential of the original liquid stored and its components.
  - b. The personnel shall be sufficiently skilled to safely carry out such operation.
  - c. Contaminated materials removed from such facility shall be disposed of at legal point of discharge.
  - d. The operation shall be carried out in a manner that will not endanger the health of the public and the environment.

### CONDITIONS B - TEMPORARY

1. All temporary closures shall be carried out as indicated in Los Angeles County Fire Department, Fire Prevention Division, Supplement #A – Inspection Guide #6, Part A and any other applicable Parts.
2. A temporary closure shall not exceed 180 days.

### CONDITION C - PERMANENT TANK (S) REMOVAL

1. All tank removals shall be carried out as indicated in Los Angeles County Fire Department, Fire Prevention Division, Supplement #A – Inspection Guide #6, Part D and any other applicable Parts.
  2. Owners/operators shall notify the Building Department having jurisdiction at the place of removal if a grading permit is necessary.
  3. Removed tanks shall not be transported away from the site until an inspection to establish site integrity is carried by the County Engineer.
  4. If an appointment has been arranged with a County Engineer Inspector to inspect the removal of a tank, the inspector will only wait at the site a reasonable amount of time (approximately one hour) after arriving for the removal to commence. Another closure fee may be charged if the inspector has to return to the site.
  5. After inspection, tank shall be transported to a legal disposal point.
  6. If the tank has stored materials other than motor fuel, fuel oil or waste oil, site integrity shall be demonstrated using the soil sampling and analysis procedures described in CONDITIONS D below.
  7. The site shall be filled and re-compacted to a relative compaction of 90%.
2. Owners/operators shall demonstrate part site integrity as follows:
  1. All permanent closures of tanks in place shall comply with Los Angeles County Fire Department, Fire Prevention Division, Supplement #A – Inspection Guide #6, Parts B or C, and any other applicable Parts.
  2. Owners/operators shall demonstrate part site integrity as follows:
    - a. Test borings shall be slant drilled to intercept a point beneath the center of the tank, if possible. If slant drilling is not feasible, the test boring may be drilled vertically and the reason stated in the report in 2.h. below.
    - b. For single tanks, a minimum of two test borings will be required, each located on opposite sides of the tank along the major axis of the tank.
    - c. For multiple tanks, as a minimum, boring shall be placed at 20-foot intervals around the tank cluster. The actual number and location of borings shall be evaluated on a case-by-case basis. Tanks separated by 20 feet or more shall be considered single tanks for the purposes of test location and placement.
    - d. Soil samples shall be taken at depths of 5, 10, 20, 30 and 40 feet below grade level.
    - e. A Shelby Tube or a Modified California Sampler shall be utilized for taking all soil samples.
    - f. Soil samples shall not be extruded in the field but are to be immediately placed in a refrigerated ice chest and transported to a state certified laboratory for analysis, using suitable methods.
    - g. A report containing the results of the above analysis shall be submitted to the County Engineer.
  3. If the soil analysis in 2. above indicates the presence of contaminants, the County Engineer shall require a site investigation as described in Chapter V of the County's "Underground Storage of Hazardous Materials -- Guidelines."
  4. A report shall be submitted to the County Engineer containing the results of the site investigation.

## NOTICE TO CLOSURE PERMIT APPLICANTS

The South Coast Air Quality Management District (SCAQMD) has adopted Rule 1166 regulating emissions of Volatile Organic Compounds (VOC) from decontamination of soil effective August 5, 1988.

In addition to the requirements of your Closure Permit, persons excavating any underground storage tank that previously contained VOC's must:

- Notify the SCAQMD by telephone at (909) 396-2326 or by fax at (909) 396-3342 using the SCAQMD notification form 24 hours prior to tank excavation. 1166(c)(1)(A)
- Monitor the excavated material during the excavation for VOC contamination. 1166(c)(1)(B)
- When VOC contamination is detected:
  - \* Cease excavation.
  - \* Cover the contaminated soil until implementation of approved mitigation measures. 1166(c)(1)(C)
  - \* Notify the SCAQMD at (909) 396-2326 within 24 hours of detection of VOC contaminated soil. 1166(c)(2)(A)
- A person shall not engage in or allow any on-site or off-site spreading of VOC contaminated soil which results in uncontrolled evaporation of VOC to the atmosphere. 1166(c)(3)

### Exemptions

- Treatment of less than one (1) cubic yard of contaminated soil. 1166(d)(1)(A)
- Decontamination of soil containing organic compounds that have initial boiling point of 302°F or greater, Reid Vapor Pressure less than 80mm Hg or Absolute Vapor Pressure less than 36mm Hg at 20°C. 1166(d)(1)(B),(F)
- Removal of soil for sampling purposes pursuant to EPA methods. 1166(d)(1)(C)
- Accidental spillage of five (5) gallons or less of VOC. 1166(d)(1)(D)
- Documentation of soil which is contaminated through natural seepage of VOC from oil and gas wells or other natural sources. 1166(d)(1)(E)

**SPECIFIC QUESTIONS ON RULE 1166 SHOULD BE REFERRED TO THE  
SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (909) 396-2326**

**Article 12. Electronic Submission of Laboratory Data for UST Reports**

**§2729. Definitions.**

"COELT" is the Corps of Engineers Loading Tool program. It is a relational database application that is designed to run with the Microsoft Windows operating system. COELT places laboratory data into the standardized Electronic Deliverable Format (EDF). The program can accept Laboratory Information Management System (LIMS) data or manually entered data. COELT is intended to help the user enter data, find errors, and comply with the laboratory data requirements of the EDF data deliverable. COELT includes a report utility that allows hard copy laboratory reports to be printed that match the actual electronic data. For purposes of the requirements of this article, version 1.2a of COELT may be used. Programs (coelt.zip and coeltservicepack.zip) and documents (coeltdocument.zip and coeltdocument12a.zip) for the version 1.2a of COELT are available at <http://www.swrcb.ca.gov> or from SWRCB at 1001 I Street, Sacramento, CA 95814.

"EDCC" means the Electronic Deliverable Consistency Checker program, which was developed for the Corps of Engineers. The EDCC program is run upon completion of an EDF report to produce an error report. This error report identifies problems within the given data set based upon the EDF database structure, guidelines and restrictions, and valid values. The error report also indicates the nature of each problem, so that the laboratory can correct it. For purposes of the requirements of this article, version 1.2a of EDCC shall be used. Programs (edcc.zip and edccservicepac1.zip) for the version 1.2a of EDCC are available at <http://www.swrcb.ca.gov> or from SWRCB at 1001 I Street, Sacramento, CA 95814.

"EDF" means the Electronic Deliverable Format that was developed for the United States Army Corps of Engineers. It is a data standard designed to facilitate the transfer of electronic data files from analytical laboratories to end-users. It is a relational database consisting of five files, related to one another through key fields. Laboratories can produce electronic documents in EDF using the COELT software or with other programs outside of COELT. The data components include the chain-of custody information, laboratory results, and quality assurance information. For purposes of the requirements of this article, version 1.2i of EDF shall be used. Specifications for version 1.2i of EDF (The Electronic Deliverable Format [EDF] Version 1.2i Guidelines & Restrictions dated April 2001 and Data Dictionary dated April 2001) are available at <http://www.swrcb.ca.gov> or from SWRCB at 1001 I Street, Sacramento, CA 95814.

"Report" means any document or item that is required for submission in order for a person to comply with a regulation, directive, or order issued by the state board, a regional board, or a local agency pursuant to a program administered by the state board, including but not limited to, any analysis of material by a laboratory that has accreditation or certification pursuant to Article 3 (commencing with Section 100825) of Chapter 4 of Part 1 of Division 101 of the Health and Safety Code.

Authority cited: Section 13197.5, Water Code.  
Reference: Section 13195(b), Water Code

**Article 12. Electronic Submission of Laboratory Data for UST Reports**

**§2729.1. Electronic Submission of Laboratory Reports.**

- (a) If a report required to be submitted to the state board, a regional board, or a local agency pursuant to Chapter 6.7 (commencing with Section 25280) of Division 20 of the Health and Safety Code or Article 4 (commencing with Section 25299.36) of Chapter 6.75 of Division 20 of the Health and Safety Code contains laboratory data reporting soil or water chemistry analysis, such data shall also be submitted to the SWRCB Geographic Environmental Information Management System database using the EDF.
- (b) Beginning January 1, 2002, any person submitting laboratory data in electronic format pursuant to these regulations shall specify for the location where the analyzed sample was collected: 1) the latitude and longitude of groundwater monitoring wells accurate to within one meter, and 2) the surveyed elevation relative to mean sea level of any groundwater monitoring well sampled.
- (c) All data shall be checked for errors prior to submittal, using the EDCC software consistency checking tool. Electronic submittal of laboratory data over the Internet shall be in addition to hard-copy laboratory reports generated by either COELT or other laboratory software.
- (d) Electronic submission of data generated by analysis of soil or water samples shall be required beginning on September 1, 2001.

Authority cited: Section 13197.5, Water Code.

Reference: Sections 13196(a), 13197.5(a), (c) and (d)(2), Water Code.

## NOTIFICATION/PERMIT REQUIREMENTS

This Closure Authorization is issued subject to compliance with all applicable laws and regulations relating to the performance of work including, but not limited to, business license requirements, Building Codes, Fire Codes, Air Quality regulations, Health and Safety Codes, Water Codes, and Transportation regulations.

Pursuant to Los Angeles County Code, Section 11.78.045, and the Conditions and Limitations of the attached Hazardous Materials Underground Storage Closure Authorization, you are required to complete ALL of the agency notifications indicated below within the time period specified prior to commencement of work on this closure.

[X] 72 HOURS - DEPARTMENT OF PUBLIC WORKS INDUSTRIAL WASTE ENGINEERING INSPECTOR:

>>>Unless otherwise noted DPW inspectors are available at the following offices,  
Monday through Friday, between 8 a.m. and 9:30 a.m. ONLY.<<<

- [ ] WHITTIER AREA - (562) 906-8426  
13523 E. Telegraph Rd., Whittier, CA 90605-3437
- [ ] CENTINELA VALLEY AREA - (310) 534-4862 or 534-4859  
24320 S. Narbonne Ave., Lomita, CA 90717-1194
- [ ] LENNOX AREA - (310) 534-4862 or 534-4859  
24320 S. Narbonne Ave., Lomita, CA 90717-1194
- [ ] SAN GABRIEL VALLEY AREA - (626) 574-0962  
125 S. Baldwin Ave., Arcadia, CA 91007-2652
- [ ] SAN DIMAS AREA - (626) 574-0962  
125 S. Baldwin Ave., Arcadia, CA 91007-2652
- [ ] EAST LOS ANGELES AREA - (323) 260-3466  
5119 E. Beverly Blvd., Los Angeles, CA 90022-3801
- [ ] CITY OF COMMERCE - (323) 887-4456  
2535 Commerce Way, Commerce, CA 90040-1487
- NEWHALL AREA - (661) 222-2953  
23757 W. Valencia Blvd., Santa Clarita, CA 91355-2192

[X] 48 HOURS (OR AS REQUIRED) - LOCAL FIRE DEPARTMENT FIRE PREVENTION INSPECTOR:

- [ ] City of \_\_\_\_\_
- Los Angeles County Fire Department 661-286-8821

[X] 24 HOURS - SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

Telephone: (909) 396-2326  
Fax: (909) 396-3342

[ ] COUNTY SERVES AS BUILDING OFFICIAL, SEE ATTACHED.

CITY SERVES AS BUILDING OFFICIAL.

Contact City B&S SANTA CLARITA

FAILURE TO PROVIDE NOTICE AS REQUIRED ABOVE MAY RESULT IN PERMIT REVOCATION, ADDITIONAL SITE ASSESSMENT REQUIREMENTS, AND/OR ADMINISTRATIVE PENALTIES AS PROVIDED BY LAW.

Revised 08/08/02

## **APPENDIX B**

**SCAQMD Rule 1166 Mitigation Plan 429325  
and Reference Number 89949**

310 537 9448

FROM : CCI / GFB

PHONE NO. : 310 537 9448

Nov. 05 2004 11:43AM P1



**SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT**  
**R1145 & R1165 NOTIFICATION FORM**

Use this form to notify of known or suspect VOC storage tank Degassing and Excavation; Excavation, Handling, and Monitoring of known or suspect VOC contaminated soil; Mitigation/Treatment of VOC contaminated soil; and VOC Vapor Extraction.

Fax this form to 300-295-3342 and within 48 hours mail the original and \$30.00 fee to:

SCAQMD - R1145/R1165 Notifications, File #55844, Los Angeles, CA 90044-5584

This form will be faxed back with a Reference number if you provide a FAXBACK #: 310-537-9448

AGENCY USE ONLY	RECEIVED <i>11/05</i>	STAMP	POSTMARK	REFERENCE # <i>89949</i>
COMPLETED BY <b>GLENN F. BARTON</b>	COMPANY <b>GLENN F. BARTON</b>	Phone # <b>523-636-1771</b>		
DATE <b>11-04-04</b>	CHECK # <b>7480</b>	AMOUNT \$ <b>50.00</b>	PROJECT #	
NOTIFICATION TYPE <b>Original (initial)</b>	Revision (prior reference #)	Cancellation (prior reference #)		
PROJECT TYPE (circle one only) <b>R1145 Soil / Tank Excavation</b>	<b>R1145 Tank Degassing</b>	<b>Soil Vapor Extraction<sup>*</sup></b>	<b>VOC Contaminated Soil Mitigation / Treatment</b>	<b>VOC Contaminated Soil Monitoring<sup>*</sup></b>
*Plan information is required for these projects. Permit information is required for these projects				
Permit Plan issued to <b>GLENN F. BARTON</b>		Plan # <b>429325</b>		
Permit issued to <b>GLENN F. BARTON</b>		Permit #		
PROJECT DATES START <b>11-08-04</b>		END <b>11-30</b>	WORK SHIFT (day, swing, night)	
SITE CONTRACTOR INFORMATION AGENCY # <b>90745</b>		CELL LICENSED # <b>517402</b>	Phone #	
Name <b>GLENN F. BARTON</b>		Address <b>400 CALLEON WAY</b>		
City <b>SEAL BEACH</b> Zip <b>90740</b>		EMERGENCY PHONE # <b>523-636-1771</b>		
SITE INFORMATION Site Name <b>ARCO # 0452</b>		SACMD ID #		
Site Address <b>24018 LYONS</b>		CROSS STREET <b>DE WOLFE</b>		
Site City <b>NEW HALL</b> Zip <b>91355</b>		Site Contact/Phone # <b>523-974-0147</b>		
TANK INFORMATION # OF TANKS <b>4</b>		EACH <b>10,000</b>	CAPACITY (gal) <b>40,000</b>	MATERIAL STORED IN TANK <b>GAS</b>
EXCAVATE <b>2 tanks</b>		<b>2</b>	<b>10,000</b>	ABOVE GROUND OR (Y/N) <b>(N)</b>
EXCAVATE <b>2 tanks</b>		<b>2</b>	<b>10,000</b>	SHEDDED <b>00</b>
EMERGENCY NOTIFICATIONS: Fax a copy of this order and give me reason, date, time, name and phone # of the person declaring the emergency.				
Reason: _____				
Date & Time _____	Name/Title _____	Phone # _____		
INFORMATION CERTIFICATION I certify that the above information is complete and accurate				
Company Name <b>GLENN F. BARTON</b>		Signature <i>[Signature]</i> Date <b>11-04-04</b>		
COMMENTS _____				
*Indicates to nearest sensitive receptor in feet				
Forms, instructions, and Rules 1145 & 1165 can be obtained from AQMD web site <a href="http://www.aqmd.gov">http://www.aqmd.gov</a> Page 1 of 2 Form REV 2004/04				
FAXING <b>LESION</b>		REPROCESSED DATE <b>11-04-04</b>	12:01	RECORDED DATE <b>11-04-04</b>



# South Coast Air Quality Management District

21865 Copley Drive, Diamond Bar, CA 91765-4178  
(909) 396-2000 • [www.aqmd.gov](http://www.aqmd.gov)

PLAN ISSUE DATE

May 21, 2004

COMPANY I.D.:

90565

Mitigation Plan/Application No.

429325

Applicant:

Glenn F. Barton  
400 Galleon Way  
Seal Beach, CA 90740

Attention:

Glenn Barton

Phone

(323) 636-1771

Fax (None Given)

## VARIOUS LOCATIONS RULE 1166 CONTAMINATED SOIL MITIGATION PLAN

Reference is made to your application (A/N 429325) for the excavation and handling of VOC-contaminated soil at various locations within the South Coast Air Quality Management District.

In accordance with Rule 1166 (c), this approved plan is required prior to commencing excavation of any areas, sites, or locations which has previously been used to store or transfer volatile organic compounds (VOC) or during the excavation, handling, or storage of VOC-contaminated soils.

The rights and privileges granted through the issuance of this plan are restricted exclusively to the plan holder to whom it was issued, and are non-transferable, even with the written or expressed consent of the plan holder listed above.

A VARIOUS LOCATIONS PLAN can be used at a site to excavate and remove a maximum of 2000 cubic yards of VOC contaminated soil at the site. Any treatment or additional excavation of VOC contaminated soil at the site will require the issuance of a SITE SPECIFIC plan by the AQMD. Multiple use of VARIOUS LOCATIONS PLANS to excavate over 2000 cubic yards of contaminated soil for the same site is prohibited per Rule 1166.

This excavation and mitigation plan has been approved under the provisions of Rule 1166 of the Rules and Regulations of the AQMD and is subject to the following conditions.

**THIS PLAN WILL EXPIRE ONE YEAR FROM THE ISSUE DATE AND  
THERE IS NO AUTOMATIC RENEWAL PROCESS.**

**TO MAINTAIN A CURRENT PLAN AFTER THE EXPIRATION DATE, FILE AN APPLICATION FOR  
A NEW PLAN AT LEAST ONE MONTH PRIOR ITS EXPIRATION. CALL 909 396-2682 OR E-MAIL  
[rvishwanath@aqmd.gov](mailto:rvishwanath@aqmd.gov) FOR AN APPLICATION PACKAGE AND CURRENT FEE INFORMATION.**

### PLAN CONDITIONS

#### SECTION I - GENERAL REQUIREMENTS

1. A SIGNED COPY OF THIS PLAN SHALL BE PRESENT AT EACH EXCAVATION SITE AT ALL TIMES AND SHALL BE MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.

- B) THE CONTAMINATED SOIL EXCAVATED SHALL BE IMMEDIATELY PLACED IN AQMD APPROVED SEALED CONTAINERS, OR,
  - C) DIRECTLY LOADED IN TRUCKS, SPRAYED WITH ADDITIONAL WATER OR APPROVED VAPOR SUPPRESSANT, COVERED, AND TRANSPORTED IMMEDIATELY OFF SITE AS PER CONDITION #25 OF THIS PLAN, OR,
  - D) OTHER ALTERNATIVE STORAGE METHODS WITH PRIOR WRITTEN APPROVAL FROM THE AQMD.
20. DURING EXCAVATION, THE ONLY EXPOSED VOC CONTAMINATED SOIL SHALL BE RESTRICTED TO THE IMMEDIATE WORKING AREA OF THE SITE OR STOCKPILE. ALL OTHER PORTIONS OF THE STOCKPILE SHALL BE COVERED WITH PLASTIC SHEETING, WITH SEAMS, WHICH OVERLAP A MINIMUM OF TWENTY-FOUR INCHES AND ARE SECURED WITH DUCT TAPE. ANY EXPOSED VOC-CONTAMINATED SOIL SURFACES (WORK FACE) SHALL BE KEPT MOIST WITH WATER OR OTHER APPROVED SUPPRESSANTS AT ALL TIMES, AND SHALL BE RE-COVERED DURING PERIODS OF INACTIVITY LONGER THAN ONE (1) HOUR. AT THE END OF EACH WORKING DAY, ALL STOCKPILES SHALL BE COMPLETELY COVERED AND SECURELY ANCHORED TO PREVENT ANY EXPOSURE OF SOIL TO THE ATMOSPHERE.
21. ONCE COVERED WITH PLASTIC SHEETING, STOCKPILES SHALL REMAIN UNDISTURBED UNTIL REMOVED FROM SITE.
22. DAILY INSPECTIONS SHALL BE CONDUCTED OF ALL COVERED VOC-CONTAMINATED STOCKPILES TO ENSURE THE INTEGRITY OF THE PLASTIC COVER. SUCH INSPECTIONS SHALL INCLUDE A VISUAL INSPECTION OF ALL SEAMS AND PLASTIC COVER SURFACES. ANY HOLES, TEARS OR ANY OTHER POTENTIAL SOURCES OF FUGITIVE VOC EMISSIONS SHALL BE REPAIRED IMMEDIATELY. DAILY RECORDS SHALL BE MAINTAINED TO ENSURE COMPLIANCE WITH THIS CONDITION.
23. VOC CONTAMINATED SOIL SHALL NOT BE SPREAD ON-SITE OR OFF-SITE. THIS INCLUDES ANY UNNECESSARY MOVEMENT OR AGITATION OF SOIL THAT MAY CAUSE THE UNCONTROLLED EVAPORATION OF VOC'S INTO THE ATMOSPHERE, INCLUDING THE RESHAPING OR RELOCATION OF STOCKPILES.
- SECTION V - SOIL REMOVAL AND DISPOSAL**
24. ALL EXCAVATED VOC-CONTAMINATED SOIL SHALL BE REMOVED FROM THE SITE WITHIN THIRTY (30) DAYS OF ITS EXCAVATION.
25. ALL VOC-CONTAMINATED SOIL REMOVED FROM THE SITE SHALL COMPLY WITH THE FOLLOWING:
- A). BE TRANSPORTED TO AN APPROVED TREATMENT/DISPOSAL FACILITY. IT SHALL BE THE RESPONSIBILITY OF THE PLAN HOLDER TO ENSURE THAT THE RECEIVING TREATMENT/DISPOSAL FACILITY HAS RECEIVED APPROVAL FROM THE APPROPRIATE ENVIRONMENTAL OVERSIGHT AGENCIES TO HANDLE AND TREAT VOC CONTAMINATED SOILS.
  - B). WHEN LOADING IS COMPLETED AND DURING TRANSPORTATION, NO EXCAVATED MATERIAL SHALL EXTEND ABOVE THE SIDES OR REAR OF THE TRUCK OR TRAILER.
  - C). PRIOR TO COVERING/TARPING, LOADED CONTAMINATED SOIL SHALL BE WETTED BY SPRAYING WITH MIST INHIBITORS.
  - D). THE TRUCK OR TRAILER SHALL BE COMPLETELY COVERED/TARPED PRIOR TO LEAVING THE SITE TO PREVENT PARICULATE EMISSIONS TO THE ATMOSPHERE.
  - E). THE EXTERIOR OF THE TRUCKS (INCLUDING THE TIRES) SHALL BE CLEANED OFF PRIOR TO THE TRUCKS LEAVING THE EXCAVATION SITE.

FROM : CONCRETE CUTTING INTL FAX NO. : 13105379448 Dec. 11 2004 09:42AM P2  
 DEC-10-2004 FRI 08:33 AM SECOR-THOUSAND OAKS FAX NO. 805cJ01277 P, UZ  
 FROM : CCI / GFB PHONE NO. : 310 537 9448 Dec. 28 2004 09:58AM P4

#### SECTION VI - RECORDS AND REPORTING

26. A WRITTEN REPORT SHALL BE PROVIDED TO THE AQMD WITHIN 30 DAYS OF INITIAL DETECTION OF CONTAMINATED SOIL, WHICH INCLUDES THE FOLLOWING INFORMATION.
- A) THE STATUS OF THE EXCAVATION PIT, AND ANY VOC CONTAMINATED SOIL REMAINING ON SITE.
  - B) A BRIEF SUMMARY INDICATING IF ADDITIONAL CLEAN UP EFFORTS ARE NECESSARY, THE ADDITIONAL QUANTITY OF VOC CONTAMINATED SOILS TO BE EXCAVATED AND THE PROJECTED SCHEDULE OF THE EXCAVATION.
27. RECORDS OF DISPOSAL SHALL BE MAINTAINED FOR ALL VOC-CONTAMINATED SOIL REMOVED FROM THIS SITE. SUCH RECORDS SHALL BE CLEARLY LABELED "SCAQMD RULE 1166-VOC CONTAMINATED SOIL" AND SHALL INCLUDE THE IDENTIFICATION AND THE LOCATION OF, 1) THE GENERATOR, 2) TRANSPORTER AND 3) RECEIVING FACILITY. IN ADDITION, SUCH RECORDS SHALL BE SIGNED AND DATED BY EACH OF THE ABOVE PARTIES INDICATING RECEIPT OR RELINQUISHMENT OF THE VOC-CONTAMINATED SOIL AT THE TIME CUSTODY IS TRANSFERRED.
28. RECORDS OF DISPOSAL OF VOC-CONTAMINATED SOIL SHALL BE MAINTAINED ON SITE DURING THE EXCAVATION AND LATER MAINTAINED FOR A PERIOD OF TWO (2) YEARS. THE RECORDS SHALL BE MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.
29. WITHIN THIRTY (30) DAYS AFTER THE EXCAVATION AT THE SITE IS COMPLETED, THE WRITTEN RECORDS UNDER CONDITIONS NO. 14, 22, AND 27 SHALL BE SUBMITTED TO THE AQMD AT THE FOLLOWING ADDRESS.

SOUTH COAST AIR QUALITY MGMT DISTRICT  
 ENGINEERING & COMPLIANCE DIVISION  
 TOXICS & WASTE MANAGEMENT UNIT  
 (RULE 1166 COMPLIANCE)  
 21865 E. COPLEY DR.  
 DIAMOND BAR, CA 91765-4182

#### SECTION VII - VERIFICATION AND SIGNATURE

30. THIS PLAN IS NOT VALID UNTIL ALL PARTIES HAVE REVIEWED AND SIGNED THE VERIFICATION STATEMENT BELOW.

ARCO 6152	Retail Gasoline Station
24018 Lyons Ave.	Newhall 91355
Atlantic Richfield Company	(818) 951-1755
4 Centerpointe Dr.	La Palma 90623

I CERTIFY THAT I HAVE REVIEWED AND UNDERSTAND THE CONDITIONS CONTAINED WITHIN THIS PLAN. IN SIGNING BELOW, I ACKNOWLEDGE THAT UNDER THE PROVISIONS OF RULE 1166, I CAN BE HELD RESPONSIBLE FOR THE REQUIREMENTS SET FORTH IN THIS PLAN.

Atlantic Richfield Co.		Agent for ARCO	11/8/04
GLENN F. PARSON		DRA. HELEN	11/08/04

FROM : CONCRETE CUTTING INTL FAX NO. : 13105379448 Dec. 11 2004 09:42AM P3  
DEC-10-2004 FRI 08:33 AM SECOR-THOUSAND OAKS FAX NO. 8052301277 P. 03  
FROM : CCI / DFB PHONE NO. : 310 537 9448 Dec. 09 2004 09:58AM P5

Environmental Control	Environmental Control	Environmental Control	Environmental Control
SECOR International Inc.		11/13/04	
(805) 230-1262 x 240			
DEFINITIONS			

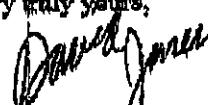
Excavation	Is the process of digging out and removing materials including any material necessary to that process such as the digging out and removal of asphalt or concrete necessary to expose, dig out and remove known VOC contaminated soil.
Organic Vapor Analyzer (OVA)	For the purposes of this plan, an OVA is an hydrocarbon monitor utilizing flame ionization, photo ionization or other analytical methods complying with 40 CFR PART 60 APPENDIX A, EPA METHOD 21 SECTION 3, "DETERMINATION OF VOLATILE ORGANIC COMPOUND LEAKS, MONITORING INSTRUMENT SPECIFICATIONS. The monitor shall be capable of being calibrated using hexane at a range of 0 parts per million by volume (PPMV) to 50 PPMV, and at a detection range of at least 30 PPMV to 1100 PPMV.
Responsible Party	For the purposes of this plan, Responsible Party is the party financially responsible for initiating the excavation. This may include the property owner or the tank operator. This excludes contractors working for the property owner or operator, and any other party that lacks the direct authority to immediately treat all VOC contaminated soils generated at the excavation site.
VOC Contaminated Soil	Is soil that registers a concentration of 50 PPM or greater of volatile organic compounds as measured before suppression materials have been applied and at a distance of no more than three inches from the surface of the excavated soil with an organic vapor analyzer calibrated with hexane.
Volatile Organic Compound (VOC)	Is any volatile compound of carbon, excluding methane, carbon monoxide, carbon dioxide, carbonic acid, metallic carbides or carbonates, ammonium carbonate, and exempt compounds. Exempt compounds areas defined in Rule 102 - Definitions of Terms.

Once issued, this plan is subject to further review by the AQMD and may be revoked if excavation activities are found in violation of plan conditions or AQMD's Rules and Regulations. Failure to comply with one or more of the conditions contained within this plan constitutes a violation of Rules 221 and 1166.

Other governmental agencies may require approval before any excavation begins. It shall be the responsibility of the applicant to obtain that approval. The South Coast Air Quality Management District shall not be responsible or liable for any losses because of measures required or taken pursuant to the requirements of this approved Rule 1166 Contaminated Soil Mitigation Plan.

Questions regarding this plan should be directed to Ranjit Vishwanath at (909) 396-2682.

Very truly yours,

  
David Jones  
Air Quality Analysis and Compliance Supervisor

**Rule 1166 Soil Monitoring Records**

Company Name <b>SECOR INLT INC.</b> <b>290 Conejo Ridge Ave #200</b> <b>Thousand Oaks, CA 91361</b>		Facility/Site Information <b>ARCO 6152</b>	
		Name:	
		Address: <b>24018 Lyons Ave</b>	
Reference No(s). <b>89949</b>		City: <b>Newhall, CA</b> Zip:	

Monitor Information		Calibration Data	Monitoring Personnel	Excavation Summary (Upon completion of each page)	
Brand: <b>Mini Rae</b>	Gas: <b>HEXANE</b>	Name: <b>Michael Salisbury</b>	Total Cubic Yds (This page)	<b>Concrete</b>	
Model: <b>2000</b>	Date: <b>11/8/04</b>	Company: <b>SECOR INLT INC</b>	Total Cubic Yds (To date)		
Type <b>PID</b>	By	Phone: <b>805-901-6433</b>	Removed from Site (To date)		

Time	VOC Concentration (PPMV) @ Excavated Load			Comment	Time	VOC Concentration (PPMV) @ Excavated Load			Comment
	Every 15 min.	Reading	Hexane Factor			Every 15 min.	Reading	Hexane Factor	
7:30	0	-		Breaking concrete	1330	0.0			Truck returned loaded concrete from Tank area
7:45	17			"	1345	0.0			"
8:00	0			"					
8:15	0			loading Concrete					
8:15-9:30				NW					
9:30	0			Breaking concrete					
9:45	5			loading concrete from Tank area					
10:45	19			Concrete from Tank area					
11:00	5			"					
11:15	7			"					
12:15	0.0			loading truck Tank area					
12:30	0.0			Tank area concrete removal					

I certify that the information contained in the above document is true and correct. I further certify that the above listed hydrocarbon monitor was operated in a manner consistent with the manufacturer's specifications and the conditions specified within this plan. In addition, I certify that the above readings represent the actual measurements I observed and recorded during the excavation process.

SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

\* Only one Truck so there were periods throughout the day when there was no work (NW) while the haul truck was off-site

**Rule 1166 Soil Monitoring Records**

Company Name  SECR IN LT inc. 290 Caney Ridge Rd #200 Thousand Oaks CA 91361		Facility/Site Information  ARCR 6152	
Reference No(s). 89949		Name:  Address: 24018 Mycans Ave City: Newhall CA Zip:	

Monitor Information		Calibration Data	Monitoring Personnel	Excavation Summary (Upon completion of each page)	
Brand: Mhi Rae	Gas: Hexane	Name: Michael Sulibury	Total Cubic Yds (This page)		
Model: 2000	Date: 4/9/04	Company: SECR	Total Cubic Yds (To date)		
Type: PID	By: MHS	Phone: 805 901 6433	Removed from Site (To date)		

fe:  
• Trucks  
activity Today  
slightly more  
in R time

Time	VOC Concentration (PPMV) @ Excavated Load				Comment	Time	VOC Concentration (PPMV) @ Excavated Load				Comment
	Every 15 min.	Reading	Hexane Factor	Adjusted Reading			Every 15 min.	Reading	Hexane Factor	Adjusted Reading	
715	0.2	-	-	Peeling up concrete from Tank area	730	0.4	-	-	-	-	Concrete from Tank area
730	1.6	-	-	11	745	0.0	-	-	-	-	west pl west of Canopy
745	9.8	-	-	Between Tanks flanking where fluming fl intersect	800	0.6	-	-	-	-	Same
800	27.5	-	-	Down wind from Tank opening	815	2.0	-	-	-	-	Same
815	19.5			Same	830	0.0	-	-	-	-	Stockpiling pea gravel
830	15	-	-	Trucks are off site	845	0.0	-	-	-	-	11
900	13.3	-	-	Truck on site Concrete from Area	900	0.1	-	-	-	-	11
915	17.5	-	-	Trucks off site NW	915	0.0	-	-	-	-	11
930	2.1	-	-	Product Nc North discharge	930	0.4	-	-	-	-	11
945	0.7	-	-	Tank area	945	2.7	-	-	-	-	11
1000	2.2	-	-	Tank area	1000	2.0	-	-	-	-	11
1015	1.2	-	-	loading concrete from Tank area	1015	0.6	-	-	-	-	11

I certify that the information contained in the above document is true and correct. I further certify that the above listed hydrocarbon monitor was operated in a manner consistent with the manufacturer's specifications and the conditions specified within this plan. In addition, I certify that the above readings represent the actual measurements I observed and recorded during the excavation process.

SIGNATURE: \_\_\_\_\_

DATE: \_\_\_\_\_

## Rule 1166 Soil Monitoring Records

Company Name <i>SECOR 290 Camino Ridge Ave STE #200 Thousand Oaks, CA 91361</i>		Facility/Site Information <i>ACD 6152</i>	
		Name:	
		Address: <i>2401B</i>	
Reference No(s). <i>89949</i>		City: <i>Newhall</i>	Zip: <i>C.A.</i>

Monitor Information	Calibration Data	Monitoring Personnel	Excavation Summary (Upon completion of each page)
Brand: <i>Mohr Rae</i>	Gas: <i>Hexane</i>	Name: <i>Michael Salisbury</i>	Total Cubic Yds (This page)
Model: <i>7000</i>	Date: <i>11/9/04</i>	Company: <i>SECOR</i>	Total Cubic Yds (To date)
Type: <i>PID</i>	By: <i>MAS</i>	Phone: <i>805 901 6433</i>	Removed from Site (To date)

Time	VOC Concentration (PPMV) @ Excavated Load			Comment	Time	VOC Concentration (PPMV) @ Excavated Load			Comment
	Every 15 min.	Reading	Hexane Factor			Every 15 min.	Reading	Hexane Factor	
1330	0.3	-	-	South Edge					
1345	2.5	-	-	"					
1400	2.3	-	-	"					
1415	2.0	-	-	"					
1430	0.6	-	-	"					
1445	1.7	-	-	"					

I certify that the information contained in the above document is true and correct. I further certify that the above listed hydrocarbon monitor was operated in a manner consistent with the manufacturer's specifications and the conditions specified within this plan. In addition, I certify that the above readings represent the actual measurements I observed and recorded during the excavation process.

SIGNATURE: \_\_\_\_\_

DATE: \_\_\_\_\_

**Rule 1166 Soil Monitoring Records**

Company Name  SECOR 290 Conejo Ridge Ave #200 Thousand Oaks CA 91361		Facility/Site Information  ARCO 6152	
		Name:	
		Address: 24018 Lyons Ave	
Reference No(s).		City: Newhall CA Zip:	

Monitor Information		Calibration Data	Monitoring Personnel	Excavation Summary (Upon completion of each page)	
Brand: Mwi Rae	Gas: Hexane	Name: Michael Sulzbury	Total Cubic Yds (This page)		
Model: 2000	Date: 1/10/04	Company: SECOR	Total Cubic Yds (To date)		
Type: PID	By: MWS	Phone: (805) 904-6433	Removed from Site (To date)		

Time	VOC Concentration (PPMV) @ Excavated Load			Comment	Time	VOC Concentration (PPMV) @ Excavated Load			Comment
	Reading	Hexane Factor	Adjusted Reading			Every 15 min.	Reading	Hexane Factor	
730	0.9	-	-	South End of Tank Area	1145	0.0	-	-	NE Corner Tank Area
745	1.8	-	-	Same	1100	2.2	-	-	Middle North Edge Tank Area
800	0.0	-	-	same	1115	0.0	-	-	same
815	0.0	-	-	EAST Edge of Tank Area	1130	0.0	-	-	same
830	0.1	-	-	Same	1145	0.1	-	-	same
845	0.1	-	-	Same	1200	2.2	-	-	same
9:00	0.4	-	-	center of Tank Area	1230	0.0	-	-	same
915	0.0	-	-	Same	1245	8.7	-	-	same
930	0.1	-	-	west of center	1300	14.9	-	-	same
1000	0.0	-	-	East side Center Tank Area	1315	3.4	-	-	same
1015	0.0	-	-	Same	1330	0.0	-	-	NE Corner Tank Area
1030	0.1	-	-	Same	1345	9.8	-	-	same

I certify that the information contained in the above document is true and correct. I further certify that the above listed hydrocarbon monitor was operated in a manner consistent with the manufacturer's specifications and the conditions specified within this plan. In addition, I certify that the above readings represent the actual measurements I observed and recorded during the excavation process.

SIGNATURE: \_\_\_\_\_

DATE: \_\_\_\_\_

## **Rule 1166 Soil Monitoring Records**

<p>Company Name  <b>SECOR</b>      290 Conejo Valley Ave #200      Thousand Oaks CA 91360</p>	<p>Facility/Site Information  <b>ARCO 6152</b></p>
<p>Reference No(s).</p>	<p>Name:  <b>24018</b></p>
	<p>Address:  <b>City: Newhall CA Zip:</b></p>

Monitor Information	Calibration Data	Monitoring Personnel	Excavation Summary (Upon completion of each page)
Brand: <i>Mitsubishi</i>	Gas: <i>Hexane</i>	Name: <i>Michael Subbaug</i>	Total Cubic Yds (This page)
Model: <i>2000</i>	Date: <i>10/10/04</i>	Company: <i>SECOOR</i>	Total Cubic Yds (To date)
Type: <i>PID</i>	By: <i>MWS</i>	Phone: <i>805 901 6473</i>	Removed from Site (To date)

I certify that the information contained in the above document is true and correct. I further certify that the above listed hydrocarbon monitor was operated in a manner consistent with the manufacturer's specifications and the conditions specified within this plan. In addition, I certify that the above readings represent the actual measurements I observed and recorded during the excavation process.

**SIGNATURE:** \_\_\_\_\_

DATE: \_\_\_\_\_

**Rule 1166 Soil Monitoring Records**

Company Name SECOR 290 Conejo Ridge AVE #200 Thousand Oaks CA 91361		Facility/Site Information ARCO 6152	
		Name:	
		Address: 24018 Lyons Ave	
Reference No(s). 89949		City: Newhall	Zip: CA

Monitor Information		Calibration Data	Monitoring Personnel	Excavation Summary (Upon completion of each page)	
Brand: Minicrae	Gas: Hexane	Name: Michael Salisbury		Total Cubic Yds (This page)	
Model: 2000	Date: 11/12/04	Company: SECOR		Total Cubic Yds (To date)	
Type: PID	By: MAG	Phone: 805 901 6433		Removed from Site (To date)	

Time	VOC Concentration (PPMV) @ Excavated Load			Comment	Time	VOC Concentration (PPMV) @ Excavated Load			Comment
	Reading	Hexane Factor	Adjusted Reading			Every 15 min.	Reading	Hexane Factor	
715	0.0	✓	—	Product Italy under Canopy					
730	0.6	—	—	Same					
745	0.4	—	—	Same					
800	0.0	—	—	Same					
815	0.0	—	—	Same					
830	20.0	—	—	Same					
845	12.0	—	—	PL West of Canopy					
900	0.0	—	—	Same					

I certify that the information contained in the above document is true and correct. I further certify that the above listed hydrocarbon monitor was operated in a manner consistent with the manufacturer's specifications and the conditions specified within this plan. In addition, I certify that the above readings represent the actual measurements I observed and recorded during the excavation process.

SIGNATURE: \_\_\_\_\_

DATE: \_\_\_\_\_

## Rule 1166 Soil Monitoring Records

Company Name  SECOR 290 Camino Ridge Ave #200 Thousand Oaks CA 91361	Facility/Site Information  ARCO 6152		
	Name:  Address: 24018 Lyons Ave City: Newhall Zip:		
Reference No(s): 89949			

Monitor Information		Calibration Data	Monitoring Personnel	Excavation Summary (Upon completion of each page)	
Brand: Multi-Rae	Model: 2000	Gas: Hexane Date: 11/15/2001 By: MWS	Name: Michael Soderby Company: SECOR Phone: (805) 691-6433	Total Cubic Yds (This page)	
Type: PID				Total Cubic Yds (To date)	
				Removed from Site (To date)	

Time	VOC Concentration (PPMV) @ Excavated Load				Comment	Time	VOC Concentration (PPMV) @ Excavated Load				Comment
	Reading	Hexane Factor	Adjusted Reading	Reading			Reading	Hexane Factor	Adjusted Reading		
1115	0.0	—	—								
1130	0.0	—	—								
1145	0.5	—	—								
1200	0.0	—	—								

I certify that the information contained in the above document is true and correct. I further certify that the above listed hydrocarbon monitor was operated in a manner consistent with the manufacturer's specifications and the conditions specified within this plan. In addition, I certify that the above readings represent the actual measurements I observed and recorded during the excavation process.

SIGNATURE: \_\_\_\_\_

DATE: \_\_\_\_\_

**Rule 1166 Soil Monitoring Records**

Company Name <i>RECOP</i> 290 Conejo Ridge Ave #200 Thousand Oaks CA 91361		Facility/Site Information <i>ARCO 6152</i>	
		Name:	
		Address: <i>2401B Lyons Ave</i>	
Reference No(s). <i>87949</i>		City: <i>Newhall</i> Zip:	

Monitor Information		Calibration Data	Monitoring Personnel	Excavation Summary (Upon completion of each page)	
Brand: <i>M.4 Rose</i>	Gas: <i>Hexane</i>	Name:		Total Cubic Yds (This page)	
Model: <i>2000</i>	Date: <i>11/18/04</i>	Company:		Total Cubic Yds (To date)	
Type <i>PID</i>	By:	Phone:		Removed from Site (To date)	

Time	VOC Concentration (PPMV) @ Excavated Load				Comment	Time	VOC Concentration (PPMV) @ Excavated Load				Comment
	Every 15 min.	Reading	Hexane Factor	Adjusted Reading			Every 15 min.	Reading	Hexane Factor	Adjusted Reading	
730	0.2	<del>same</del>	<del>face all</del>	<del>old PC month island</del> rest of canopy	old PC month island	1115	0.0				
745	0.7					1130	0.0				
800	0.2					1145	0.9	Removing SE Dispenser island			
830	0.7					1200	0.5	N/ Tack hammer			
845	0.0					1215	0.0				
900	2.4					1230	0.5	loading concrete in truck			
915	0.0					1245	0.0	from SE dispens			
915-1000	<del>know on</del> Brea C					1300	0.0	Jill hammer, up	<del>new</del>	<del>dispenser</del>	<del>in ground</del>
1015	0.3	old vent lines @				1315	0.0				
1030	0.0	in corner of building				1330	0.0				
1045	0.0					1345	0.0				
1100	0.1	load dry	cement into			1400	0.0				

I certify that the information contained in the above document is true and correct. I further certify that the above listed hydrocarbon monitor was operated in a manner consistent with the manufacturer's specifications and the conditions specified within this plan. In addition, I certify that the above readings represent the actual measurements I observed and recorded during the excavation process.

SIGNATURE: \_\_\_\_\_

DATE: \_\_\_\_\_

## **APPENDIX C**

### **Marine Chemist Certificate**

FROM : CONCRETE CUTTING INTL

FIRK NO. : 13105279448

Feb. 09 2005 10:27AM Pg

Thomas D. Beck & Assoc., Inc.  
**dba HARBOR TESTING LABORATORY**  
 24 HOUR PHONE: (562) 492-9646

**REVISED  
MARINE CHEMIST CERTIFICATE**

Serial # 0822

**ADAMS SERVICES**

Survey Requested By

**UNIVERSAL TANK**

Vessel

**SHARINE, DIESEL**

Last Cargo

Vessel Owner or Agent

**OST**

Type of Vessel

**LPG, O<sub>2</sub>, VIBRAC**

Tests Performed

**15 NOV 01****24018 LYONS AVE**

Date

**0630**

Specific Location of Vessel

Time Survey Completed

**(4) FOUR UNDERGROUND****STORAGE TANKS (FLAMMABILITY****CONSTRUCTED) (TANK)****WITH RED SPRAY PAINT****6721; 6722;****6723; 6724****TESTED: 0% LEL****20, 34, 30, 2****NOT SAFE FOR WORKERS****NOT SAFE FOR HOT WORK****TANKS HAVE BEEN CLEANED****SAFE TO WORK IN TANKS****MSA MICROBIRD 94-2245 TESTED 15 NOV 2004**

**QUALIFICATIONS:** Transfer of hazardous cargo, fuel, or manipulation of valves or closure equipment tending to alter conditions in pipelines, tanks, or compartments subject to gas accumulation, unless specifically approved on this Certificate, requires inspection and a new Certificate for space so affected. All lines, vents, heating coils, valves, and similar enclosed appurtenances shall be considered "not safe" unless otherwise specifically designated. Movement of the vessel from its specific location voids this Certificate unless shifting of the vessel within the facility has been specifically authorized on this Certificate.

**STANDARD SAFETY DESIGNATIONS** (partial list, paraphrased from NFPA 305, Subsections 4.3.1 through 4.3.6):

**ATMOSPHERE SAFE FOR WORKERS:** In the compartment or space so designated (a) the oxygen content of the atmosphere is at least 19.5 percent and not greater than 22 percent by volume; (b) the concentration of flammable materials is below 10 percent of the lower explosive limit; (c) any toxic materials in the atmosphere associated with cargo, fuel, newsprint, insulating medium, or fungicides are at their permissible concentrations at the time of the inspection.

**NOT SAFE FOR WORKERS:** In the compartment or space so designated, entry is not permitted.

**ENTER WITH RESTRICTIONS:** In the compartment or space so designated, entry for work is permitted only if conditions of proper protective equipment, or clothing, or both, or all of the aforementioned, as applicable, are air spaced.

**SAFE FOR HOT WORK:** In the compartment or space so designated (a) the oxygen content of the atmosphere is not greater than 22 percent by volume; (b) the concentration of flammable materials in the atmosphere is less than 10 percent of the lower explosive limit; (c) the residues, scale, or preservative coatings are cleaned sufficiently to prevent the spread of fire and are not capable of producing a higher concentration than permitted by (a) or (b); (d) all adjacent spaces, containing or having contained flammable or combustible materials shall be sufficiently cleaned of residues, scale, or preservative coatings to prevent the spread of fire, or they are inerted. Ship's fuel tanks, lube tanks, or engine room or fire room blights, or other machinery spaces, are treated in accordance with the Marine Chemist's requirements.

**SAFE FOR LIMITED HOT WORK:** In the compartment or space so designated (a) pointers of the person meet the requirements for Safe for Hot Work and Partial Cleaning, as applicable; (b) the space is limited, adjacent spaces meet the requirements for Safe for Hot Work, and hot work is restricted to specific locations; (c) portion of the space shall meet the requirements for Safe for Hot Work, as applicable, and the nature or type of hot work is limited or restricted.

**NOT SAFE FOR HOT WORK:** In the compartment or space so designated, hot work is not permitted.

**CHEMIST ENDORSEMENT:** This is to certify that I have personally determined that all spaces in the foregoing list are in accordance with NFPA 305 Control of Gas Hazards on Vessels and have found the condition of each to be in accordance with its assigned designation.

I acknowledge receipt of the Certificate under NFPA 305 and understand the conditions  
 of limitation under which it was issued, and the requirements for reissuing it without

The Certificate is based on conditions existing at the time the inspection herein set forth was con-  
 ducted and is limited to compliance with all conditions and stipulations.

Signed

Name

Company

Date

Signed

Signature

Comments

**Thomas D. Beck**

**APPENDIX D**

**UST Rinsate Waste Water Manifest**

FROM: CONCRETE CUTTING INTL

FAX NO: 113102379448

Feb. 09 2005 10:26AM PG3

Department of Toxic Substances Control  
Sacramento, California

Please print or type. Form may not be used on side (2-ply) paper.

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No.: <b>113102379448</b>	2. Manifest Document No.: <b>113102379448</b>	3. Page 1 <b>1 of 1</b>	Information in the shaded boxes is not required by Federal law.	
3. Generator's Name and Mailing Address <b>ACB: BY WEST COAST PRODUCTS INC. P.O. BOX 80299 RANCHO SANTA MARGARITA, CA 92689</b>		4. Generator's Phone 1305 796-1853		A. State Manifest Document Number: <b>23861784</b>		
5. Transporter 1 Company Name <b>ADAMS SERVICES, INC.</b>		6. US EPA ID Number: <b>113102379448</b>		B. State Transporter ID Number:		
7. Transporter 2 Company Name		8. US EPA ID Number		C. State Transporter ID Number [reserved]		
9. Designated Facility Name and Site Address <b>DISCHERED/KERDOON 2600 N. ALAMEDA STREET YONKTON, SD 57078</b>		10. US EPA ID Number: <b>113102379448</b>		D. Transporter's Phone: <b>310-533-4430</b>		
11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number) <b>NON-HAZARDOUS WASTE STREAM CONT. 1 WATER</b>		12. Components No.: <b>10001</b>	13. Total Quantity: <b>T T Y 2 50 G</b>	E. State Transporter ID Number [reserved]		
14. Additional Description for Material Listed Above <b>PURE WATER, IN GL.</b>		15. Handling Codes for Materials Listed Above <b>PURE WATER CONT. 1 WATER</b>		F. State Facility ID: <b>C 1 A 4 1 C 0 0 1 3 1 5 2</b>		
				G. Facility's Phone: <b>310-533-7160</b>		
16. Special Handling Instructions and Additional Information <b>AVOID EYE CONTACT &amp; WEAR RUBBER GLOVES</b>		<b>RECIPIENT ANDRE METZ 6901 LYON AVE ROCHESTER, NY 14618</b>				
Comments: Gleam Ft. Services						
17. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this manifest are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.						
If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity potential generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, and disposal currently available to me which minimizes the physical and safety threat to human health and the environment. Or, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is practicable to me and that I can afford.						
Printed/Typed Name: <b>ACB: BY WEST COAST PRODUCTS INC.</b>		Signature: <b>[Signature]</b>		Month: <b>11</b>	Day: <b>12</b>	Year: <b>2005</b>
17. Transporter 1 Acknowledgment of Receipt of Manifest Printed/Typed Name: <b>ADAMS SERVICES, INC.</b>		Signature: <b>[Signature]</b>		Month: <b>11</b>	Day: <b>12</b>	Year: <b>2005</b>
18. Transporter 2 Acknowledgement of Receipt of Manifest Printed/Typed Name: <b></b>		Signature: <b></b>		Month: <b></b>	Day: <b></b>	Year: <b></b>
19. Discrepancy Indicator Space						
20. Facility Owner or Operator Certification of removal of hazardous materials covered by this manifest except as noted in Item 18. Printed/Typed Name: <b>OTSC-B0294 (T/P)</b>		Signature: <b>[Signature]</b>		Month: <b>11</b>	Day: <b>12</b>	Year: <b>2005</b>

DO NOT WRITE BELOW THIS LINE.

OTSC-B0294 (T/P)  
EPA 8700-22

Yellow: GENERATOR RETAINS

## **APPENDIX E**

### **Certificate of Tank Disposal**

FAX. (310) 537-9448

# GLENN F. BARTON

## WASTE REDUCTION SYSTEMS

RECEIVED

FEB 14 2005

Remediation Management

 20963 LAMBERTON AVE., LONG BEACH, CA 90810 9113 CHESAPEAKE DRIVE, SAN DIEGO, CA 92123

(213) 636-1771 • (310) 635-2248 • (714) 627-7441 • (619) 268-8106

DATE: November 15, 2004

## TANK AND PIPING DISPOSAL

NO: 0206-04

CUSTOMER: BP West Coast Products, LLC

JOB SITE: ARCO #6152

ADDRESS: Post Office Box 80249

ADDRESS: 2801B Lyons Avenue

TOWN: Rancho Santa Margarita, CA 92688

TOWN: Newhall, CA 91355

### CERTIFICATE OF TANK DISPOSAL DESTRUCTION OF STEEL AND FIBERGLASS TANKS AND PIPING

This is to certify the receipt and acceptance of the tank(s) as specified below. All materials specified have been completely destroyed for scrap purposes only.

## TANKS RECEIVED

QTY	GALLONS	STEEL ONLY FIBERGLASS	NET TONS	TOTAL
	280		.14	
	500		.21	
	550		.24	
	1000 - 12 ft.		.44	
	1000 - 6 ft.		.61	
	1500		.87	
	2000		.97	
	2500		1.14	
	3000		1.32	
	4000		1.64	
	5000		2.42	
	6000		2.84	
	7500		3.28	
	8000		3.44	
	9000		3.82	
Four (4)	10000		4.33	17.32
	12000		4.93	
	15000		6.48	
	20000		8.23	
	Miscellaneous Steel or Fiberglass Product,			
	Vapor Recovery and Vent Piping			
	Other			

Miscellaneous Steel or Fiberglass Product,  
Vapor Recovery and Vent Piping ET H

1.69

NUMBER OF TANKS FOUR (4)

NET TONS 1.69

17.32

GLENN F. BARTON

November 15, 2004

DATE

## **APPENDIX F**

**Certified Laboratory Analytical Reports  
And Chain of Custody Documentation**



17461 Derian Ave., Suite 100, Irvine, CA 92614 (949) 261-1022 FAX (949) 260-3297  
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9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851  
2520 E. Sunset Rd. #3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

## LABORATORY REPORT

Prepared For: SECOR International, Inc.-Orange County  
11085 Knott Ave, Suite B  
Cypress, CA 90630

Attention: Cathy Sanford

Project: ARCO 6152, Newhall

Sampled: 11/15/04  
Received: 11/15/04  
Issued: 11/26/04 10:35

NELAP #01108CA CA ELAP #1197 CSDLAC #10117

*The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of Del Mar Analytical and its client. This report shall not be reproduced, except in full, without written permission from Del Mar Analytical. The Chain(s) of Custody, 4 pages, are included and are an integral part of this report.*

*This entire report was reviewed and approved for release.*

### CASE NARRATIVE

SAMPLE RECEIPT: Samples were received intact, at 4°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the Del Mar Analytical Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: Results that fall between the MDL and RL are 'J' flagged.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

LABORATORY ID	CLIENT ID	MATRIX
INK1107-02	EB-6152-20041115	Water
INK1107-03	D-1-2	Soil
INK1107-04	D-2-2	Soil
INK1107-05	D-3-2	Soil
INK1107-06	D-4-2	Soil
INK1107-07	PL-1-2	Soil
INK1107-08	PL-2-2	Soil
INK1107-09	PL-3-2	Soil
INK1107-10	PL-4-2	Soil
INK1107-11	T-1A	Soil
INK1107-12	T-1B	Soil

Del Mar Analytical, Irvine  
Wendy Kirkeeng  
Project Manager



# Del Mar Analytical

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SECOR International, Inc.-Orange County  
11085 Knott Ave, Suite B  
Cypress, CA 90630  
Attention: Cathy Sanford

Project ID: ARCO 6152, Newhall  
Report Number: INK1107

Sampled: 11/15/04  
Received: 11/15/04

LABORATORY ID	CLIENT ID	MATRIX
INK1107-13	T-2A	Soil
INK1107-14	T-2B	Soil
INK1107-15	T-3A	Soil
INK1107-16	T-3B	Soil
INK1107-17	T-4A	Soil
INK1107-18	T-4B	Soil

Reviewed By:

Del Mar Analytical, Irvine  
Wendy Kirkeeng  
Project Manager

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INK1107 <Page 2 of 26>



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SECOR International, Inc.-Orange County  
11085 Knott Ave, Suite B  
Cypress, CA 90630  
Attention: Cathy Sanford

Project ID: ARCO 6152, Newhall

Report Number: INK1107

Sampled: 11/15/04

Received: 11/15/04

### VOLATILE FUEL HYDROCARBONS (EPA 5030/8015M)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Date Qualifiers
<b>Sample ID: INK1107-02 (EB-6152-20041115 - Water)</b>									
GRO (C4 - C12)	EPA 8015B	4K23029	22	50	ND 95 %	1	11/23/04	11/23/04	
<i>Surrogate: 4-BFB (FID) (60-135%)</i>									

Del Mar Analytical, Irvine  
Wendy Kirkeeng  
Project Manager

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SECOR International, Inc.-Orange County  
 11085 Knott Ave, Suite B  
 Cypress, CA 90630  
 Attention: Cathy Sanford

Project ID: ARCO 6152, Newhall

Report Number: INK1107

Sampled: 11/15/04

Received: 11/15/04

**VOLATILE FUEL HYDROCARBONS (EPA 5035B/CADHS Mod. 8015)**

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: INK1107-03 (D-1-2 - Soil)</b>									
Reporting Units: mg/kg GRO (C4 - C12) <i>Surrogate: 4-BFB (FID) (65-135%)</i>	EPA 8015B	4K18030	0.11	0.87	ND 92 %	0.874	11/18/04	11/18/04	
<b>Sample ID: INK1107-04 (D-2-2 - Soil)</b>									
Reporting Units: mg/kg GRO (C4 - C12) <i>Surrogate: 4-BFB (FID) (65-135%)</i>	EPA 8015B	4K18030	0.13	1.0	ND 92 %	0.917	11/18/04	11/18/04	
<b>Sample ID: INK1107-05 (D-3-2 - Soil)</b>									
Reporting Units: mg/kg GRO (C4 - C12) <i>Surrogate: 4-BFB (FID) (65-135%)</i>	EPA 8015B	4K18030	0.12	0.89	ND 84 %	0.888	11/18/04	11/18/04	
<b>Sample ID: INK1107-06 (D-4-2 - Soil)</b>									
Reporting Units: mg/kg GRO (C4 - C12) <i>Surrogate: 4-BFB (FID) (65-135%)</i>	EPA 8015B	4K18030	0.11	0.84	ND 86 %	0.845	11/18/04	11/18/04	
<b>Sample ID: INK1107-07 (PL-1-2 - Soil)</b>									
Reporting Units: mg/kg GRO (C4 - C12) <i>Surrogate: 4-BFB (FID) (65-135%)</i>	EPA 8015B	4K18030	0.12	0.90	ND 82 %	0.903	11/18/04	11/18/04	
<b>Sample ID: INK1107-08 (PL-2-2 - Soil)</b>									
Reporting Units: mg/kg GRO (C4 - C12) <i>Surrogate: 4-BFB (FID) (65-135%)</i>	EPA 8015B	4K18030	0.12	0.89	ND 100 %	0.891	11/18/04	11/18/04	
<b>Sample ID: INK1107-09 (PL-3-2 - Soil)</b>									
Reporting Units: mg/kg GRO (C4 - C12) <i>Surrogate: 4-BFB (FID) (65-135%)</i>	EPA 8015B	4K18030	0.11	0.85	ND 73 %	0.852	11/18/04	11/18/04	
<b>Sample ID: INK1107-10 (PL-4-2 - Soil)</b>									
Reporting Units: mg/kg GRO (C4 - C12) <i>Surrogate: 4-BFB (FID) (65-135%)</i>	EPA 8015B	4K18030	0.12	0.89	ND 102 %	0.894	11/18/04	11/18/04	

**Del Mar Analytical, Irvine**  
 Wendy Kirkeeng  
 Project Manager

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 9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0651  
 2520 E. Sunset Rd. #3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

SECOR International, Inc.-Orange County 11085 Knott Ave, Suite B Cypress, CA 90630 Attention: Cathy Sanford	Project ID: ARCO 6152, Newhall Report Number: INK1107	Sampled: 11/15/04 Received: 11/15/04
--	--	---

### VOLATILE FUEL HYDROCARBONS (EPA 5035B/CADHS Mod. 8015)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: INK1107-11 (T-1A - Soil)</b>									
Reporting Units: mg/kg GRO (C4 - C12) <i>Surrogate: 4-BFB (FID) (65-135%)</i>	EPA 8015B	4K18030	0.11	0.86	ND 83 %	0.859	11/18/04	11/18/04	
<b>Sample ID: INK1107-12 (T-1B - Soil)</b>									
Reporting Units: mg/kg GRO (C4 - C12) <i>Surrogate: 4-BFB (FID) (65-135%)</i>	EPA 8015B	4K18030	0.11	0.84	ND 89 %	0.838	11/18/04	11/18/04	
<b>Sample ID: INK1107-13 (T-2A - Soil)</b>									
Reporting Units: mg/kg GRO (C4 - C12) <i>Surrogate: 4-BFB (FID) (65-135%)</i>	EPA 8015B	4K18030	0.13	1.0	0.88 115 %	0.929	11/18/04	11/18/04	J,DX
<b>Sample ID: INK1107-14 (T-2B - Soil)</b>									
Reporting Units: mg/kg GRO (C4 - C12) <i>Surrogate: 4-BFB (FID) (65-135%)</i>	EPA 8015B	4K18030	0.11	0.88	ND 90 %	0.879	11/18/04	11/18/04	
<b>Sample ID: INK1107-15 (T-3A - Soil)</b>									
Reporting Units: mg/kg GRO (C4 - C12) <i>Surrogate: 4-BFB (FID) (65-135%)</i>	EPA 8015B	4K18030	0.13	1.0	ND 72 %	0.962	11/18/04	11/18/04	
<b>Sample ID: INK1107-16 (T-3B - Soil)</b>									
Reporting Units: mg/kg GRO (C4 - C12) <i>Surrogate: 4-BFB (FID) (65-135%)</i>	EPA 8015B	4K18030	0.12	0.91	0.18 108 %	0.906	11/18/04	11/19/04	J,DX
<b>Sample ID: INK1107-17 (T-4A - Soil)</b>									
Reporting Units: mg/kg GRO (C4 - C12) <i>Surrogate: 4-BFB (FID) (65-135%)</i>	EPA 8015B	4K18030	0.11	0.83	ND 93 %	0.831	11/18/04	11/19/04	
<b>Sample ID: INK1107-18 (T-4B - Soil)</b>									
Reporting Units: mg/kg GRO (C4 - C12) <i>Surrogate: 4-BFB (FID) (65-135%)</i>	EPA 8015B	4K18030	0.13	1.0	ND 89 %	0.933	11/18/04	11/19/04	

Del Mar Analytical, Irvine  
 Wendy Kirkeeng  
 Project Manager



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SECOR International, Inc.-Orange County  
11085 Knott Ave, Suite B  
Cypress, CA 90630  
Attention: Cathy Sanford

Project ID: ARCO 6152, Newhall

Report Number: INK1107

Sampled: 11/15/04

Received: 11/15/04

### BTEX/OXYGENATES by GC/MS (EPA 8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: INK1107-02 (EB-6152-20041115 - Water)</b>									
Reporting Units: ug/l									
Benzene	EPA 8260B	4K23020	0.28	2.0	ND	1	11/23/04	11/24/04	
Ethylbenzene	EPA 8260B	4K23020	0.25	2.0	ND	1	11/23/04	11/24/04	
Toluene	EPA 8260B	4K23020	0.36	2.0	ND	1	11/23/04	11/24/04	
m,p-Xylenes	EPA 8260B	4K23020	0.52	2.0	ND	1	11/23/04	11/24/04	
o-Xylene	EPA 8260B	4K23020	0.24	2.0	ND	1	11/23/04	11/24/04	
Xylenes, Total	EPA 8260B	4K23020	0.52	4.0	ND	1	11/23/04	11/24/04	
Di-isopropyl Ether (DIPE)	EPA 8260B	4K23020	0.25	5.0	ND	1	11/23/04	11/24/04	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	4K23020	0.28	5.0	ND	1	11/23/04	11/24/04	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	4K23020	0.33	5.0	ND	1	11/23/04	11/24/04	IB,IA
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	4K23020	0.32	5.0	ND	1	11/23/04	11/24/04	
tert-Butanol (TBA)	EPA 8260B	4K23020	3.1	50	ND	1	11/23/04	11/24/04	
Ethanol	EPA 8260B	4K23020	100	150	ND	1	11/23/04	11/24/04	
<i>Surrogate: Dibromofluoromethane (80-120%)</i>									
103 %									
<i>Surrogate: Toluene-d8 (80-120%)</i>									
103 %									
<i>Surrogate: 4-Bromofluorobenzene (80-120%)</i>									
98 %									

Del Mar Analytical, Irvine  
Wendy Kirkeeng  
Project Manager

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SECOR International, Inc.-Orange County  
 11085 Knott Ave, Suite B  
 Cypress, CA 90630  
 Attention: Cathy Sanford

Project ID: ARCO 6152, Newhall

Report Number: INK1107

Sampled: 11/15/04

Received: 11/15/04

**BTEX/OXYGENATES by GC/MS (EPA 5035/8260B)**

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
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**Sample ID: INK1107-03 (D-1-2 - Soil)**

Reporting Units: mg/kg

Benzene	EPA 8260B	4K19044	0.00050	0.0020	ND	0.945	11/19/04	11/19/04
Ethylbenzene	EPA 8260B	4K19044	0.00051	0.0020	ND	0.945	11/19/04	11/19/04
Toluene	EPA 8260B	4K19044	0.00091	0.0020	ND	0.945	11/19/04	11/19/04
o-Xylene	EPA 8260B	4K19044	0.00047	0.0020	ND	0.945	11/19/04	11/19/04
m,p-Xylenes	EPA 8260B	4K19044	0.00075	0.0020	ND	0.945	11/19/04	11/19/04
Xylenes, Total	EPA 8260B	4K19044	0.00075	0.0040	ND	0.945	11/19/04	11/19/04
Di-isopropyl Ether (DIPE)	EPA 8260B	4K19044	0.00035	0.0050	ND	0.945	11/19/04	11/19/04
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	4K19044	0.00058	0.0050	ND	0.945	11/19/04	11/19/04
tert-Amyl Methyl Ether (TAME)	EPA 8260B	4K19044	0.00064	0.0050	ND	0.945	11/19/04	11/19/04
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	4K19044	0.0010	0.0050	ND	0.945	11/19/04	11/19/04
tert-Butanol (TBA)	EPA 8260B	4K19044	0.0047	0.050	ND	0.945	11/19/04	11/19/04
Ethanol	EPA 8260B	4K19044	0.055	0.30	ND	0.945	11/19/04	11/19/04

Surrogate: Dibromofluoromethane (80-125%)

114 %

Surrogate: Toluene-d8 (80-120%)

106 %

Surrogate: 4-Bromofluorobenzene (80-120%)

97 %

**Sample ID: INK1107-04 (D-2-2 - Soil)**

Reporting Units: mg/kg

Benzene	EPA 8260B	4K19044	0.00050	0.0020	ND	0.912	11/19/04	11/19/04
Ethylbenzene	EPA 8260B	4K19044	0.00051	0.0020	ND	0.912	11/19/04	11/19/04
Toluene	EPA 8260B	4K19044	0.00091	0.0020	ND	0.912	11/19/04	11/19/04
o-Xylene	EPA 8260B	4K19044	0.00047	0.0020	ND	0.912	11/19/04	11/19/04
m,p-Xylenes	EPA 8260B	4K19044	0.00075	0.0020	ND	0.912	11/19/04	11/19/04
Xylenes, Total	EPA 8260B	4K19044	0.00075	0.0040	ND	0.912	11/19/04	11/19/04
Di-isopropyl Ether (DIPE)	EPA 8260B	4K19044	0.00035	0.0050	ND	0.912	11/19/04	11/19/04
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	4K19044	0.00058	0.0050	ND	0.912	11/19/04	11/19/04
tert-Amyl Methyl Ether (TAME)	EPA 8260B	4K19044	0.00064	0.0050	ND	0.912	11/19/04	11/19/04
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	4K19044	0.0010	0.0050	ND	0.912	11/19/04	11/19/04
tert-Butanol (TBA)	EPA 8260B	4K19044	0.0047	0.050	ND	0.912	11/19/04	11/19/04
Ethanol	EPA 8260B	4K19044	0.055	0.30	ND	0.912	11/19/04	11/19/04

Surrogate: Dibromofluoromethane (80-125%)

113 %

Surrogate: Toluene-d8 (80-120%)

109 %

Surrogate: 4-Bromofluorobenzene (80-120%)

99 %

**Del Mar Analytical, Irvine**

Wendy Kirkeeng

Project Manager



**Del Mar Analytical**

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SECOR International, Inc.-Orange County  
 11085 Knott Ave, Suite B  
 Cypress, CA 90630  
 Attention: Cathy Sanford

Project ID: ARCO 6152, Newhall

Report Number: INK1107

Sampled: 11/15/04

Received: 11/15/04

**BTEX/OXYGENATES by GC/MS (EPA 5035/8260B)**

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
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Sample ID: INK1107-05 (D-3-2 - Soil)

Reporting Units: mg/kg

Benzene	EPA 8260B	4K19044	0.00043	0.0017	ND	0.862	11/19/04	11/20/04
Ethylbenzene	EPA 8260B	4K19044	0.00044	0.0017	ND	0.862	11/19/04	11/20/04
Toluene	EPA 8260B	4K19044	0.00078	0.0017	ND	0.862	11/19/04	11/20/04
o-Xylene	EPA 8260B	4K19044	0.00041	0.0017	ND	0.862	11/19/04	11/20/04
m,p-Xylenes	EPA 8260B	4K19044	0.00065	0.0017	ND	0.862	11/19/04	11/20/04
Xylenes, Total	EPA 8260B	4K19044	0.00065	0.0034	ND	0.862	11/19/04	11/20/04
Di-isopropyl Ether (DIPE)	EPA 8260B	4K19044	0.00030	0.0043	ND	0.862	11/19/04	11/20/04
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	4K19044	0.00050	0.0043	ND	0.862	11/19/04	11/20/04
tert-Amyl Methyl Ether (TAME)	EPA 8260B	4K19044	0.00055	0.0043	ND	0.862	11/19/04	11/20/04
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	4K19044	0.00086	0.0043	ND	0.862	11/19/04	11/20/04
tert-Butanol (TBA)	EPA 8260B	4K19044	0.0041	0.043	ND	0.862	11/19/04	11/20/04
Ethanol	EPA 8260B	4K19044	0.047	0.26	ND	0.862	11/19/04	11/20/04

Surrogate: Dibromofluoromethane (80-125%)

116 %

Surrogate: Toluene-d8 (80-120%)

105 %

Surrogate: 4-Bromofluorobenzene (80-120%)

100 %

Sample ID: INK1107-06 (D-4-2 - Soil)

Reporting Units: mg/kg

Benzene	EPA 8260B	4K19044	0.00043	0.0017	ND	0.861	11/19/04	11/20/04
Ethylbenzene	EPA 8260B	4K19044	0.00044	0.0017	ND	0.861	11/19/04	11/20/04
Toluene	EPA 8260B	4K19044	0.00078	0.0017	ND	0.861	11/19/04	11/20/04
o-Xylene	EPA 8260B	4K19044	0.00040	0.0017	ND	0.861	11/19/04	11/20/04
m,p-Xylenes	EPA 8260B	4K19044	0.00065	0.0017	ND	0.861	11/19/04	11/20/04
Xylenes, Total	EPA 8260B	4K19044	0.00065	0.0034	ND	0.861	11/19/04	11/20/04
Di-isopropyl Ether (DIPE)	EPA 8260B	4K19044	0.00030	0.0043	ND	0.861	11/19/04	11/20/04
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	4K19044	0.00050	0.0043	ND	0.861	11/19/04	11/20/04
tert-Amyl Methyl Ether (TAME)	EPA 8260B	4K19044	0.00055	0.0043	ND	0.861	11/19/04	11/20/04
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	4K19044	0.00086	0.0043	ND	0.861	11/19/04	11/20/04
tert-Butanol (TBA)	EPA 8260B	4K19044	0.0040	0.043	ND	0.861	11/19/04	11/20/04
Ethanol	EPA 8260B	4K19044	0.047	0.26	ND	0.861	11/19/04	11/20/04

Surrogate: Dibromofluoromethane (80-125%)

113 %

Surrogate: Toluene-d8 (80-120%)

107 %

Surrogate: 4-Bromofluorobenzene (80-120%)

98 %

**Del Mar Analytical, Irvine**  
 Wendy Kirkeeng  
 Project Manager

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**INK1107 <Page 8 of 26>**



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SECOR International, Inc.-Orange County  
 11085 Knott Ave, Suite B  
 Cypress, CA 90630  
 Attention: Cathy Sanford

Project ID: ARCO 6152, Newhall

Report Number: INK1107

Sampled: 11/15/04

Received: 11/15/04

### BTEX/OXYGENATES by GC/MS (EPA 5035/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Date Qualifiers
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**Sample ID: INK1107-07 (PL-1-2 - Soil)**

Reporting Units: mg/kg

Benzene	EPA 8260B	4K19044	0.00043	0.0017	ND	0.865	11/19/04	11/20/04
Ethylbenzene	EPA 8260B	4K19044	0.00044	0.0017	ND	0.865	11/19/04	11/20/04
Toluene	EPA 8260B	4K19044	0.00079	0.0017	ND	0.865	11/19/04	11/20/04
o-Xylene	EPA 8260B	4K19044	0.00041	0.0017	ND	0.865	11/19/04	11/20/04
m,p-Xylenes	EPA 8260B	4K19044	0.00065	0.0017	ND	0.865	11/19/04	11/20/04
Xylenes, Total	EPA 8260B	4K19044	0.00065	0.0035	ND	0.865	11/19/04	11/20/04
Di-isopropyl Ether (DIPE)	EPA 8260B	4K19044	0.00030	0.0043	ND	0.865	11/19/04	11/20/04
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	4K19044	0.00050	0.0043	ND	0.865	11/19/04	11/20/04
tert-Amyl Methyl Ether (TAME)	EPA 8260B	4K19044	0.00055	0.0043	ND	0.865	11/19/04	11/20/04
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	4K19044	0.00087	0.0043	ND	0.865	11/19/04	11/20/04
tert-Butanol (TBA)	EPA 8260B	4K19044	0.0041	0.043	ND	0.865	11/19/04	11/20/04
Ethanol	EPA 8260B	4K19044	0.048	0.26	ND	0.865	11/19/04	11/20/04

Surrogate: Dibromofluoromethane (80-125%)

117 %

Surrogate: Toluene-d8 (80-120%)

106 %

Surrogate: 4-Bromofluorobenzene (80-120%)

101 %

**Sample ID: INK1107-08 (PL-2-2 - Soil)**

Reporting Units: mg/kg

Benzene	EPA 8260B	4K22025	0.00041	0.0016	ND	0.824	11/22/04	11/22/04
Ethylbenzene	EPA 8260B	4K22025	0.00042	0.0016	ND	0.824	11/22/04	11/22/04
Toluene	EPA 8260B	4K22025	0.00075	0.0016	ND	0.824	11/22/04	11/22/04
o-Xylene	EPA 8260B	4K22025	0.00039	0.0016	ND	0.824	11/22/04	11/22/04
m,p-Xylenes	EPA 8260B	4K22025	0.00062	0.0016	ND	0.824	11/22/04	11/22/04
Xylenes, Total	EPA 8260B	4K22025	0.00062	0.0033	ND	0.824	11/22/04	11/22/04
Di-isopropyl Ether (DIPE)	EPA 8260B	4K22025	0.00029	0.0041	ND	0.824	11/22/04	11/22/04
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	4K22025	0.00048	0.0041	ND	0.824	11/22/04	11/22/04
tert-Amyl Methyl Ether (TAME)	EPA 8260B	4K22025	0.00053	0.0041	ND	0.824	11/22/04	11/22/04
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	4K22025	0.00082	0.0041	ND	0.824	11/22/04	11/22/04
tert-Butanol (TBA)	EPA 8260B	4K22025	0.0039	0.041	ND	0.824	11/22/04	11/22/04
Ethanol	EPA 8260B	4K22025	0.045	0.25	ND	0.824	11/22/04	11/22/04

Surrogate: Dibromofluoromethane (80-125%)

108 %

Surrogate: Toluene-d8 (80-120%)

107 %

Surrogate: 4-Bromofluorobenzene (80-120%)

97 %

**Del Mar Analytical, Irvine**  
 Wendy Kirkeeng  
 Project Manager



**Del Mar Analytical**

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SECOR International, Inc.-Orange County  
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 Cypress, CA 90630  
 Attention: Cathy Sanford

Project ID: ARCO 6152, Newhall

Report Number: INK1107

Sampled: 11/15/04

Received: 11/15/04

**BTEX/OXYGENATES by GC/MS (EPA 5035/8260B)**

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
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**Sample ID: INK1107-09 (PL-3-2 - Soil)**

Reporting Units: mg/kg

Benzene	EPA 8260B	4K21010	0.00044	0.0018	ND	0.876	11/21/04	11/21/04
Ethylbenzene	EPA 8260B	4K21010	0.00045	0.0018	ND	0.876	11/21/04	11/21/04
Toluene	EPA 8260B	4K21010	0.00080	0.0018	ND	0.876	11/21/04	11/21/04
o-Xylene	EPA 8260B	4K21010	0.00041	0.0018	ND	0.876	11/21/04	11/21/04
m,p-Xylenes	EPA 8260B	4K21010	0.00066	0.0018	ND	0.876	11/21/04	11/21/04
Xylenes, Total	EPA 8260B	4K21010	0.00066	0.0035	ND	0.876	11/21/04	11/21/04
Di-isopropyl Ether (DIPE)	EPA 8260B	4K21010	0.00031	0.0044	ND	0.876	11/21/04	11/21/04
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	4K21010	0.00051	0.0044	ND	0.876	11/21/04	11/21/04
tert-Amyl Methyl Ether (TAME)	EPA 8260B	4K21010	0.00056	0.0044	ND	0.876	11/21/04	11/21/04
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	4K21010	0.00088	0.0044	ND	0.876	11/21/04	11/21/04
tert-Butanol (TBA)	EPA 8260B	4K21010	0.0041	0.044	ND	0.876	11/21/04	11/21/04
Ethanol	EPA 8260B	4K21010	0.048	0.26	ND	0.876	11/21/04	11/21/04

Surrogate: Dibromoformmethane (80-125%)

106 %

Surrogate: Toluene-d8 (80-120%)

101 %

Surrogate: 4-Bromofluorobenzene (80-120%)

96 %

**Sample ID: INK1107-10 (PL-4-2 - Soil)**

Reporting Units: mg/kg

Benzene	EPA 8260B	4K22025	0.00045	0.0018	ND	0.906	11/22/04	11/22/04
Ethylbenzene	EPA 8260B	4K22025	0.00046	0.0018	ND	0.906	11/22/04	11/22/04
Toluene	EPA 8260B	4K22025	0.00082	0.0018	ND	0.906	11/22/04	11/22/04
o-Xylene	EPA 8260B	4K22025	0.00043	0.0018	ND	0.906	11/22/04	11/22/04
m,p-Xylenes	EPA 8260B	4K22025	0.00068	0.0018	ND	0.906	11/22/04	11/22/04
Xylenes, Total	EPA 8260B	4K22025	0.00068	0.0036	ND	0.906	11/22/04	11/22/04
Di-isopropyl Ether (DIPE)	EPA 8260B	4K22025	0.00032	0.0045	ND	0.906	11/22/04	11/22/04
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	4K22025	0.00053	0.0045	ND	0.906	11/22/04	11/22/04
tert-Amyl Methyl Ether (TAME)	EPA 8260B	4K22025	0.00058	0.0045	ND	0.906	11/22/04	11/22/04
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	4K22025	0.00091	0.0045	ND	0.906	11/22/04	11/22/04
tert-Butanol (TBA)	EPA 8260B	4K22025	0.0043	0.045	ND	0.906	11/22/04	11/22/04
Ethanol	EPA 8260B	4K22025	0.050	0.27	ND	0.906	11/22/04	11/22/04

Surrogate: Dibromoformmethane (80-125%)

113 %

Surrogate: Toluene-d8 (80-120%)

108 %

Surrogate: 4-Bromofluorobenzene (80-120%)

99 %

**Del Mar Analytical, Irvine**  
 Wendy Kirkeeng  
 Project Manager



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Cypress, CA 90630  
Attention: Cathy Sanford

Project ID: ARCO 6152, Newhall

Report Number: INK1107

Sampled: 11/15/04

Received: 11/15/04

### BTEX/OXYGENATES by GC/MS (EPA 5035/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
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#### Sample ID: INK1107-11 (T-1A - Soil)

Reporting Units: mg/kg

Benzene	EPA 8260B	4K21010	0.00043	0.0017	ND	0.861	11/21/04	11/21/04
Ethylbenzene	EPA 8260B	4K21010	0.00044	0.0017	ND	0.861	11/21/04	11/21/04
Toluene	EPA 8260B	4K21010	0.00078	0.0017	ND	0.861	11/21/04	11/21/04
o-Xylene	EPA 8260B	4K21010	0.00040	0.0017	ND	0.861	11/21/04	11/21/04
m,p-Xylenes	EPA 8260B	4K21010	0.00065	0.0017	ND	0.861	11/21/04	11/21/04
Xylenes, Total	EPA 8260B	4K21010	0.00065	0.0034	ND	0.861	11/21/04	11/21/04
Di-isopropyl Ether (DIPE)	EPA 8260B	4K21010	0.00030	0.0043	ND	0.861	11/21/04	11/21/04
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	4K21010	0.00050	0.0043	ND	0.861	11/21/04	11/21/04
tert-Amyl Methyl Ether (TAME)	EPA 8260B	4K21010	0.00055	0.0043	ND	0.861	11/21/04	11/21/04
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	4K21010	0.00086	0.0043	ND	0.861	11/21/04	11/21/04
tert-Butanol (TBA)	EPA 8260B	4K21010	0.0040	0.043	ND	0.861	11/21/04	11/21/04
Ethanol	EPA 8260B	4K21010	0.047	0.26	ND	0.861	11/21/04	11/21/04

Surrogate: Dibromofluoromethane (80-125%)

106 %

Surrogate: Toluene-d8 (80-120%)

103 %

Surrogate: 4-Bromo/fluorobenzene (80-120%)

97 %

#### Sample ID: INK1107-12 (T-1B - Soil)

Reporting Units: mg/kg

Benzene	EPA 8260B	4K21010	0.00041	0.0016	ND	0.82	11/21/04	11/21/04
Ethylbenzene	EPA 8260B	4K21010	0.00042	0.0016	ND	0.82	11/21/04	11/21/04
Toluene	EPA 8260B	4K21010	0.00075	0.0016	ND	0.82	11/21/04	11/21/04
o-Xylene	EPA 8260B	4K21010	0.00039	0.0016	ND	0.82	11/21/04	11/21/04
m,p-Xylenes	EPA 8260B	4K21010	0.00061	0.0016	ND	0.82	11/21/04	11/21/04
Xylenes, Total	EPA 8260B	4K21010	0.00061	0.0033	ND	0.82	11/21/04	11/21/04
Di-isopropyl Ether (DIPE)	EPA 8260B	4K21010	0.00029	0.0041	ND	0.82	11/21/04	11/21/04
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	4K21010	0.00048	0.0041	ND	0.82	11/21/04	11/21/04
tert-Amyl Methyl Ether (TAME)	EPA 8260B	4K21010	0.00052	0.0041	ND	0.82	11/21/04	11/21/04
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	4K21010	0.00082	0.0041	ND	0.82	11/21/04	11/21/04
tert-Butanol (TBA)	EPA 8260B	4K21010	0.0039	0.041	ND	0.82	11/21/04	11/21/04
Ethanol	EPA 8260B	4K21010	0.045	0.25	ND	0.82	11/21/04	11/21/04

Surrogate: Dibromofluoromethane (80-125%)

105 %

Surrogate: Toluene-d8 (80-120%)

101 %

Surrogate: 4-Bromo/fluorobenzene (80-120%)

97 %

Del Mar Analytical, Irvine  
Wendy Kirkeeng  
Project Manager



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SECOR International, Inc.-Orange County  
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 Attention: Cathy Sanford

Project ID: ARCO 6152, Newhall

Report Number: INK1107

Sampled: 11/15/04

Received: 11/15/04

### BTEX/OXYGENATES by GC/MS (EPA 5035/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Date Qualifiers
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**Sample ID: INK1107-13 (T-2A - Soil)**

Reporting Units: mg/kg

Benzene	EPA 8260B	4K21010	0.00050	0.0020	ND	0.98	11/21/04	11/21/04
Ethylbenzene	EPA 8260B	4K21010	0.00051	0.0020	0.0026	0.98	11/21/04	11/21/04
Toluene	EPA 8260B	4K21010	0.00091	0.0020	ND	0.98	11/21/04	11/21/04
o-Xylene	EPA 8260B	4K21010	0.00047	0.0020	0.0020	0.98	11/21/04	11/21/04
m,p-Xylenes	EPA 8260B	4K21010	0.00075	0.0020	0.0086	0.98	11/21/04	11/21/04
Xylenes, Total	EPA 8260B	4K21010	0.00075	0.0040	0.011	0.98	11/21/04	11/21/04
Di-isopropyl Ether (DIPE)	EPA 8260B	4K21010	0.00035	0.0050	ND	0.98	11/21/04	11/21/04
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	4K21010	0.00058	0.0050	ND	0.98	11/21/04	11/21/04
tert-Amyl Methyl Ether (TAME)	EPA 8260B	4K21010	0.00064	0.0050	ND	0.98	11/21/04	11/21/04
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	4K21010	0.0010	0.0050	ND	0.98	11/21/04	11/21/04
tert-Butanol (TBA)	EPA 8260B	4K21010	0.0047	0.050	ND	0.98	11/21/04	11/21/04
Ethanol	EPA 8260B	4K21010	0.055	0.30	ND	0.98	11/21/04	11/21/04

Surrogate: Dibromoformmethane (80-125%)

109 %

Surrogate: Toluene-d8 (80-120%)

102 %

Surrogate: 4-Bromofluorobenzene (80-120%)

96 %

**Sample ID: INK1107-14 (T-2B - Soil)**

Reporting Units: mg/kg

Benzene	EPA 8260B	4K21010	0.00041	0.0016	ND	0.82	11/21/04	11/21/04
Ethylbenzene	EPA 8260B	4K21010	0.00042	0.0016	ND	0.82	11/21/04	11/21/04
Toluene	EPA 8260B	4K21010	0.00075	0.0016	ND	0.82	11/21/04	11/21/04
o-Xylene	EPA 8260B	4K21010	0.00039	0.0016	ND	0.82	11/21/04	11/21/04
m,p-Xylenes	EPA 8260B	4K21010	0.00061	0.0016	ND	0.82	11/21/04	11/21/04
Xylenes, Total	EPA 8260B	4K21010	0.00061	0.0033	ND	0.82	11/21/04	11/21/04
Di-isopropyl Ether (DIPE)	EPA 8260B	4K21010	0.00029	0.0041	ND	0.82	11/21/04	11/21/04
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	4K21010	0.00048	0.0041	ND	0.82	11/21/04	11/21/04
tert-Amyl Methyl Ether (TAME)	EPA 8260B	4K21010	0.00052	0.0041	ND	0.82	11/21/04	11/21/04
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	4K21010	0.00082	0.0041	ND	0.82	11/21/04	11/21/04
tert-Butanol (TBA)	EPA 8260B	4K21010	0.0039	0.041	ND	0.82	11/21/04	11/21/04
Ethanol	EPA 8260B	4K21010	0.045	0.25	ND	0.82	11/21/04	11/21/04

Surrogate: Dibromoformmethane (80-125%)

106 %

Surrogate: Toluene-d8 (80-120%)

102 %

Surrogate: 4-Bromofluorobenzene (80-120%)

98 %

**Del Mar Analytical, Irvine**  
 Wendy Kirkeeng  
 Project Manager

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SECOR International, Inc.-Orange County  
 11085 Knott Ave, Suite B  
 Cypress, CA 90630  
 Attention: Cathy Sanford

Project ID: ARCO 6152, Newhall

Report Number: INK1107

Sampled: 11/15/04

Received: 11/15/04

**BTEX/OXYGENATES by GC/MS (EPA 5035/8260B)**

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
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**Sample ID: INK1107-15 (T-3A - Soil)**

Reporting Units: mg/kg

Benzene	EPA 8260B	4K21010	0.00050	0.0020	ND	0.951	11/21/04	11/21/04
Ethylbenzene	EPA 8260B	4K21010	0.00051	0.0020	ND	0.951	11/21/04	11/21/04
Toluene	EPA 8260B	4K21010	0.00091	0.0020	ND	0.951	11/21/04	11/21/04
o-Xylene	EPA 8260B	4K21010	0.00047	0.0020	ND	0.951	11/21/04	11/21/04
m,p-Xylenes	EPA 8260B	4K21010	0.00075	0.0020	ND	0.951	11/21/04	11/21/04
Xylenes, Total	EPA 8260B	4K21010	0.00075	0.0040	ND	0.951	11/21/04	11/21/04
Di-isopropyl Ether (DIPE)	EPA 8260B	4K21010	0.00035	0.0050	ND	0.951	11/21/04	11/21/04
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	4K21010	0.00058	0.0050	ND	0.951	11/21/04	11/21/04
tert-Amyl Methyl Ether (TAME)	EPA 8260B	4K21010	0.00064	0.0050	ND	0.951	11/21/04	11/21/04
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	4K21010	0.0010	0.0050	ND	0.951	11/21/04	11/21/04
tert-Butanol (TBA)	EPA 8260B	4K21010	0.0047	0.050	ND	0.951	11/21/04	11/21/04
Ethanol	EPA 8260B	4K21010	0.055	0.30	ND	0.951	11/21/04	11/21/04

Surrogate: Dibromofluoromethane (80-125%)

109 %

Surrogate: Toluene-d8 (80-120%)

102 %

Surrogate: 4-Bromofluorobenzene (80-120%)

95 %

**Sample ID: INK1107-16 (T-3B - Soil)**

Reporting Units: mg/kg

Benzene	EPA 8260B	4K22025	0.00050	0.0020	ND	0.917	11/22/04	11/22/04
Ethylbenzene	EPA 8260B	4K22025	0.00051	0.0020	ND	0.917	11/22/04	11/22/04
Toluene	EPA 8260B	4K22025	0.00091	0.0020	ND	0.917	11/22/04	11/22/04
o-Xylene	EPA 8260B	4K22025	0.00047	0.0020	ND	0.917	11/22/04	11/22/04
m,p-Xylenes	EPA 8260B	4K22025	0.00075	0.0020	ND	0.917	11/22/04	11/22/04
Xylenes, Total	EPA 8260B	4K22025	0.00075	0.0040	ND	0.917	11/22/04	11/22/04
Di-isopropyl Ether (DIPE)	EPA 8260B	4K22025	0.00035	0.0050	ND	0.917	11/22/04	11/22/04
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	4K22025	0.00058	0.0050	ND	0.917	11/22/04	11/22/04
tert-Amyl Methyl Ether (TAME)	EPA 8260B	4K22025	0.00064	0.0050	ND	0.917	11/22/04	11/22/04
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	4K22025	0.0010	0.0050	ND	0.917	11/22/04	11/22/04
tert-Butanol (TBA)	EPA 8260B	4K22025	0.0047	0.050	ND	0.917	11/22/04	11/22/04
Ethanol	EPA 8260B	4K22025	0.055	0.30	ND	0.917	11/22/04	11/22/04

Surrogate: Dibromofluoromethane (80-125%)

106 %

Surrogate: Toluene-d8 (80-120%)

108 %

Surrogate: 4-Bromofluorobenzene (80-120%)

97 %

**Del Mar Analytical, Irvine**

Wendy Kirkeeng

Project Manager



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SECOR International, Inc.-Orange County  
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 Attention: Cathy Sanford

Project ID: ARCO 6152, Newhall

Report Number: INK1107

Sampled: 11/15/04  
 Received: 11/15/04

### BTEX/OXYGENATES by GC/MS (EPA 5035/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
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Sample ID: INK1107-17 (T-4A - Soil)

Reporting Units: mg/kg

Benzene	EPA 8260B	4K21010	0.00050	0.0020	ND	0.958	11/21/04	11/21/04
Ethylbenzene	EPA 8260B	4K21010	0.00051	0.0020	ND	0.958	11/21/04	11/21/04
Toluene	EPA 8260B	4K21010	0.00091	0.0020	ND	0.958	11/21/04	11/21/04
o-Xylene	EPA 8260B	4K21010	0.00047	0.0020	ND	0.958	11/21/04	11/21/04
m,p-Xylenes	EPA 8260B	4K21010	0.00075	0.0020	ND	0.958	11/21/04	11/21/04
Xylenes, Total	EPA 8260B	4K21010	0.00075	0.0040	ND	0.958	11/21/04	11/21/04
Di-isopropyl Ether (DIPE)	EPA 8260B	4K21010	0.00035	0.0050	ND	0.958	11/21/04	11/21/04
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	4K21010	0.00058	0.0050	ND	0.958	11/21/04	11/21/04
tert-Amyl Methyl Ether (TAME)	EPA 8260B	4K21010	0.00064	0.0050	ND	0.958	11/21/04	11/21/04
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	4K21010	0.0010	0.0050	ND	0.958	11/21/04	11/21/04
tert-Butanol (TBA)	EPA 8260B	4K21010	0.0047	0.050	ND	0.958	11/21/04	11/21/04
Ethanol	EPA 8260B	4K21010	0.055	0.30	ND	0.958	11/21/04	11/21/04

Surrogate: Dibromoformmethane (80-125%)

106 %

Surrogate: Toluene-d8 (80-120%)

103 %

Surrogate: 4-Bromofluorobenzene (80-120%)

99 %

Sample ID: INK1107-18 (T-4B - Soil)

Reporting Units: mg/kg

Benzene	EPA 8260B	4K21010	0.00050	0.0020	ND	0.975	11/21/04	11/21/04
Ethylbenzene	EPA 8260B	4K21010	0.00051	0.0020	ND	0.975	11/21/04	11/21/04
Toluene	EPA 8260B	4K21010	0.00091	0.0020	ND	0.975	11/21/04	11/21/04
o-Xylene	EPA 8260B	4K21010	0.00047	0.0020	ND	0.975	11/21/04	11/21/04
m,p-Xylenes	EPA 8260B	4K21010	0.00075	0.0020	ND	0.975	11/21/04	11/21/04
Xylenes, Total	EPA 8260B	4K21010	0.00075	0.0040	ND	0.975	11/21/04	11/21/04
Di-isopropyl Ether (DIPE)	EPA 8260B	4K21010	0.00035	0.0050	ND	0.975	11/21/04	11/21/04
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	4K21010	0.00058	0.0050	ND	0.975	11/21/04	11/21/04
tert-Amyl Methyl Ether (TAME)	EPA 8260B	4K21010	0.00064	0.0050	ND	0.975	11/21/04	11/21/04
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	4K21010	0.0010	0.0050	ND	0.975	11/21/04	11/21/04
tert-Butanol (TBA)	EPA 8260B	4K21010	0.0047	0.050	ND	0.975	11/21/04	11/21/04
Ethanol	EPA 8260B	4K21010	0.055	0.30	ND	0.975	11/21/04	11/21/04

Surrogate: Dibromoformmethane (80-125%)

103 %

Surrogate: Toluene-d8 (80-120%)

102 %

Surrogate: 4-Bromofluorobenzene (80-120%)

96 %

Del Mar Analytical, Irvine  
 Wendy Kirkeeng  
 Project Manager

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Attention: Cathy Sanford

Project ID: ARCO 6152, Newhall

Report Number: INK1107

Sampled: 11/15/04  
Received: 11/15/04

### METHOD BLANK/QC DATA

### VOLATILE FUEL HYDROCARBONS (EPA 5030/8015M)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD RPD	RPD Limit	Data Qualifiers
<u>Batch: 4K23029 Extracted: 11/23/04</u>											
Blank Analyzed: 11/23/04 (4K23029-BLK1)											
GRO (C4 - C12)	ND	50	22	ug/l							
Surrogate: 4-BFB (FID)	9.91			ug/l	10.0		99	60-135			
<u>LCS Analyzed: 11/23/04 (4K23029-BS1)</u>											
GRO (C4 - C12)	212	50	22	ug/l	220		96	70-135			
Surrogate: 4-BFB (FID)	11.3			ug/l	10.0		113	60-135			
<u>Matrix Spike Analyzed: 11/23/04 (4K23029-MS1)</u>											
GRO (C4 - C12)	212	50	22	ug/l	220	ND	96	60-135			
Surrogate: 4-BFB (FID)	11.5			ug/l	10.0		115	60-135			
<u>Matrix Spike Dup Analyzed: 11/23/04 (4K23029-MSD1)</u>											
GRO (C4 - C12)	215	50	22	ug/l	220	ND	98	60-135	1	20	
Surrogate: 4-BFB (FID)	11.5			ug/l	10.0		115	60-135			

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Wendy Kirkeeng  
Project Manager

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Attention: Cathy Sanford

Project ID: ARCO 6152, Newhall

Report Number: INK1107

Sampled: 11/15/04

Received: 11/15/04

### METHOD BLANK/QC DATA

### VOLATILE FUEL HYDROCARBONS (EPA 5035B/CADHS Mod. 8015)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 4K18030 Extracted: 11/18/04</b>											
<b>Blank Analyzed: 11/18/04 (4K18030-BLK1)</b>											
GRO (C4 - C12)	ND	1.0	0.13	mg/kg							
Surrogate: 4-BFB (FID)	0.0222			mg/kg	0.0200		111	65-135			
<b>LCS Analyzed: 11/18/04 (4K18030-BS1)</b>											
GRO (C4 - C12)	0.511	1.0	0.13	mg/kg	0.440		116	75-130			JDX
Surrogate: 4-BFB (FID)	0.0231			mg/kg	0.0200		116	65-135			
<b>LCS Dup Analyzed: 11/18/04 (4K18030-BSD1)</b>											
GRO (C4 - C12)	0.523	1.0	0.13	mg/kg	0.440		119	75-130	2	20	JDX
Surrogate: 4-BFB (FID)	0.0233			mg/kg	0.0200		116	65-135			

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Project ID: ARCO 6152, Newhall

Report Number: INK1107

Sampled: 11/15/04  
 Received: 11/15/04

### METHOD BLANK/QC DATA

### BTEX/OXYGENATES by GC/MS (EPA 8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
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Batch: 4K23020 Extracted: 11/23/04

Blank Analyzed: 11/23/04 (4K23020-BLK1)

Benzene	ND	2.0	0.28	ug/l							
Ethylbenzene	ND	2.0	0.25	ug/l							
Toluene	0.510	2.0	0.36	ug/l							J,DX
m,p-Xylenes	ND	2.0	0.52	ug/l							
o-Xylene	ND	2.0	0.24	ug/l							
Xylenes, Total	ND	4.0	0.52	ug/l							
Di-isopropyl Ether (DIPE)	ND	5.0	0.25	ug/l							
Ethyl tert-Butyl Ether (ETBE)	ND	5.0	0.28	ug/l							
tert-Amyl Methyl Ether (TAME)	ND	5.0	0.33	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	5.0	0.32	ug/l							
tert-Butanol (TBA)	ND	50	3.1	ug/l							
Ethanol	ND	150	100	ug/l							
<i>Surrogate: Dibromoformmethane</i>	25.5			ug/l	25.0		102	80-120			
<i>Surrogate: Toluene-d8</i>	25.7			ug/l	25.0		103	80-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	24.4			ug/l	25.0		98	80-120			

LCS Analyzed: 11/23/04 (4K23020-BS1)

Benzene	26.6	2.0	0.28	ug/l	25.0		106	70-120			
Ethylbenzene	26.3	2.0	0.25	ug/l	25.0		105	80-120			
Toluene	27.1	2.0	0.36	ug/l	25.0		108	75-120			
m,p-Xylenes	54.0	2.0	0.52	ug/l	50.0		108	75-120			
o-Xylene	26.1	2.0	0.24	ug/l	25.0		104	75-125			
Xylenes, Total	80.0	4.0	0.52	ug/l	75.0		107	75-125			
Di-isopropyl Ether (DIPE)	27.7	5.0	0.25	ug/l	25.0		111	65-135			
Ethyl tert-Butyl Ether (ETBE)	26.9	5.0	0.28	ug/l	25.0		108	60-140			
tert-Amyl Methyl Ether (TAME)	28.0	5.0	0.33	ug/l	25.0		112	60-140			
Methyl-tert-butyl Ether (MTBE)	26.9	5.0	0.32	ug/l	25.0		108	55-145			
tert-Butanol (TBA)	140	50	3.1	ug/l	125		112	70-140			LO
Ethanol	270	150	100	ug/l	250		108	35-165			
<i>Surrogate: Dibromoformmethane</i>	25.9			ug/l	25.0		104	80-120			
<i>Surrogate: Toluene-d8</i>	26.2			ug/l	25.0		105	80-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	25.0			ug/l	25.0		100	80-120			

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 Project Manager

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SECOR International, Inc.-Orange County  
 11085 Knott Ave, Suite B  
 Cypress, CA 90630  
 Attention: Cathy Sanford

Project ID: ARCO 6152, Newhall

Report Number: INK1107

Sampled: 11/15/04  
 Received: 11/15/04

### METHOD BLANK/QC DATA

### BTEX/OXYGENATES by GC/MS (EPA 8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
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Batch: 4K23020 Extracted: 11/23/04

Matrix Spike Analyzed: 11/23/04 (4K23020-MS1)

		Source: INK1105-01								
Benzene	28.9	2.0	0.28	ug/l	25.0	3.6	101	70-120		
Ethylbenzene	27.6	2.0	0.25	ug/l	25.0	2.2	102	70-130		
Toluene	26.1	2.0	0.36	ug/l	25.0	0.50	102	70-120		
m,p-Xylenes	55.9	2.0	0.52	ug/l	50.0	4.7	102	65-130		
o-Xylene	28.3	2.0	0.24	ug/l	25.0	3.0	101	65-125		
Xylenes, Total	84.2	4.0	0.52	ug/l	75.0	7.7	102	65-135		
Di-isopropyl Ether (DIPE)	27.2	5.0	0.25	ug/l	25.0	ND	109	65-140		
Ethyl tert-Butyl Ether (ETBE)	27.1	5.0	0.28	ug/l	25.0	ND	108	60-140		
tert-Amyl Methyl Ether (TAME)	27.6	5.0	0.33	ug/l	25.0	ND	110	55-145		
Methyl-tert-butyl Ether (MTBE)	55.2	5.0	0.32	ug/l	25.0	30	101	50-155		
Ethanol	257	150	100	ug/l	250	ND	103	35-165		
<i>Surrogate: Dibromofluoromethane</i>	26.1			ug/l	25.0		104	80-120		
<i>Surrogate: Toluene-d8</i>	26.0			ug/l	25.0		104	80-120		
<i>Surrogate: 4-Bromofluorobenzene</i>	25.1			ug/l	25.0		100	80-120		

Matrix Spike Dup Analyzed: 11/23/04 (4K23020-MSD1)

		Source: INK1105-01								
Benzene	29.3	2.0	0.28	ug/l	25.0	3.6	103	70-120	1	20
Ethylbenzene	28.4	2.0	0.25	ug/l	25.0	2.2	105	70-130	3	20
Toluene	26.7	2.0	0.36	ug/l	25.0	0.50	105	70-120	2	20
m,p-Xylenes	57.7	2.0	0.52	ug/l	50.0	4.7	106	65-130	3	25
o-Xylene	28.9	2.0	0.24	ug/l	25.0	3.0	104	65-125	2	20
Xylenes, Total	86.6	4.0	0.52	ug/l	75.0	7.7	105	65-135	3	20
Di-isopropyl Ether (DIPE)	27.3	5.0	0.25	ug/l	25.0	ND	109	65-140	0	25
Ethyl tert-Butyl Ether (ETBE)	26.6	5.0	0.28	ug/l	25.0	ND	106	60-140	2	25
tert-Amyl Methyl Ether (TAME)	27.3	5.0	0.33	ug/l	25.0	ND	109	55-145	1	30
Methyl-tert-butyl Ether (MTBE)	53.5	5.0	0.32	ug/l	25.0	30	94	50-155	3	25
Ethanol	281	150	100	ug/l	250	ND	112	35-165	9	30
<i>Surrogate: Dibromofluoromethane</i>	25.7			ug/l	25.0		103	80-120		
<i>Surrogate: Toluene-d8</i>	26.2			ug/l	25.0		105	80-120		
<i>Surrogate: 4-Bromofluorobenzene</i>	25.2			ug/l	25.0		101	80-120		

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 Project Manager

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SECOR International, Inc.-Orange County  
 11085 Knott Ave, Suite B  
 Cypress, CA 90630  
 Attention: Cathy Sanford

Project ID: ARCO 6152, Newhall  
 Report Number: INK1107

Sampled: 11/15/04  
 Received: 11/15/04

### METHOD BLANK/QC DATA

### BTEX/OXYGENATES by GC/MS (EPA 5035/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
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Batch: 4K19044 Extracted: 11/19/04

**Blank Analyzed: 11/19/04 (4K19044-BLK1)**

Benzene	ND	0.0020	0.00050	mg/kg						
Ethylbenzene	ND	0.0020	0.00051	mg/kg						
Toluene	ND	0.0020	0.00091	mg/kg						
o-Xylene	ND	0.0020	0.00047	mg/kg						
m,p-Xylenes	ND	0.0020	0.00075	mg/kg						
Xylenes, Total	ND	0.0040	0.00075	mg/kg						
Di-isopropyl Ether (DIPE)	ND	0.0050	0.00035	mg/kg						
Ethyl tert-Butyl Ether (ETBE)	ND	0.0050	0.00058	mg/kg						
tert-Amyl Methyl Ether (TAME)	ND	0.0050	0.00064	mg/kg						
Methyl-tert-butyl Ether (MTBE)	ND	0.0050	0.0010	mg/kg						
tert-Butanol (TBA)	ND	0.050	0.0047	mg/kg						
Ethanol	ND	0.30	0.055	mg/kg						
<i>Surrogate: Dibromofluoromethane</i>	0.0529			mg/kg	0.0500		106	80-125		
<i>Surrogate: Toluene-d8</i>	0.0537			mg/kg	0.0500		107	80-120		
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0503			mg/kg	0.0500		101	80-120		

**LCS Analyzed: 11/19/04 (4K19044-BS1)**

Benzene	0.0440	0.0020	0.00050	mg/kg	0.0500		88	70-120		
Ethylbenzene	0.0503	0.0020	0.00051	mg/kg	0.0500		101	75-125		
Toluene	0.0482	0.0020	0.00091	mg/kg	0.0500		96	75-120		
o-Xylene	0.0472	0.0020	0.00047	mg/kg	0.0500		94	80-125		
m,p-Xylenes	0.0980	0.0020	0.00075	mg/kg	0.100		98	80-125		
Xylenes, Total	0.145	0.0040	0.00075	mg/kg	0.150		97	80-125		
Di-isopropyl Ether (DIPE)	0.0503	0.0050	0.00035	mg/kg	0.0500		101	65-135		
Ethyl tert-Butyl Ether (ETBE)	0.0533	0.0050	0.00058	mg/kg	0.0500		107	60-140		
tert-Amyl Methyl Ether (TAME)	0.0564	0.0050	0.00064	mg/kg	0.0500		113	60-140		
Methyl-tert-butyl Ether (MTBE)	0.0564	0.0050	0.0010	mg/kg	0.0500		113	55-145		
tert-Butanol (TBA)	0.237	0.050	0.0047	mg/kg	0.250		95	70-140		
Ethanol	0.300	0.30	0.055	mg/kg	0.500		60	35-165		
<i>Surrogate: Dibromofluoromethane</i>	0.0531			mg/kg	0.0500		106	80-125		
<i>Surrogate: Toluene-d8</i>	0.0541			mg/kg	0.0500		108	80-120		
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0536			mg/kg	0.0500		107	80-120		

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 Project Manager

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SECOR International, Inc.-Orange County  
 11085 Knott Ave, Suite B  
 Cypress, CA 90630  
 Attention: Cathy Sanford

Project ID: ARCO 6152, Newhall

Report Number: INK1107

Sampled: 11/15/04

Received: 11/15/04

### METHOD BLANK/QC DATA

### BTEX/OXYGENATES by GC/MS (EPA 5035/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 4K19044 Extracted: 11/19/04</b>											
LCS Dup Analyzed: 11/19/04 (4K19044-BSD1)											
Benzene	0.0449	0.0020	0.00050	mg/kg	0.0500	90	70-120	2	20		
Ethylbenzene	0.0487	0.0020	0.00051	mg/kg	0.0500	97	75-125	3	20		
Toluene	0.0484	0.0020	0.00091	mg/kg	0.0500	97	75-120	0	20		
o-Xylene	0.0465	0.0020	0.00047	mg/kg	0.0500	93	80-125	1	20		
m,p-Xylenes	0.0968	0.0020	0.00075	mg/kg	0.100	97	80-125	1	20		
Xylenes, Total	0.143	0.0040	0.00075	mg/kg	0.150	95	80-125	1	20		
Di-isopropyl Ether (DIPE)	0.0481	0.0050	0.00035	mg/kg	0.0500	96	65-135	4	20		
Ethyl tert-Butyl Ether (ETBE)	0.0480	0.0050	0.00058	mg/kg	0.0500	96	60-140	10	20		
tert-Amyl Methyl Ether (TAME)	0.0485	0.0050	0.00064	mg/kg	0.0500	97	60-140	15	20		
Methyl-tert-butyl Ether (MTBE)	0.0482	0.0050	0.0010	mg/kg	0.0500	96	55-145	16	25		
tert-Butanol (TBA)	0.266	0.050	0.0047	mg/kg	0.250	106	70-140	12	20		
Ethanol	0.376	0.30	0.055	mg/kg	0.500	75	35-165	22	30		
Surrogate: DibromoFluoromethane	0.0516			mg/kg	0.0500	103	80-125				
Surrogate: Toluene-d8	0.0542			mg/kg	0.0500	108	80-120				
Surrogate: 4-BromoFluorobenzene	0.0505			mg/kg	0.0500	101	80-120				

### Batch: 4K21010 Extracted: 11/21/04

Blank Analyzed: 11/21/04 (4K21010-BLK1)											
Benzene	ND	0.0020	0.00050	mg/kg							
Ethylbenzene	ND	0.0020	0.00051	mg/kg							
Toluene	ND	0.0020	0.00091	mg/kg							
o-Xylene	ND	0.0020	0.00047	mg/kg							
m,p-Xylenes	ND	0.0020	0.00075	mg/kg							
Xylenes, Total	ND	0.0040	0.00075	mg/kg							
Di-isopropyl Ether (DIPE)	ND	0.0050	0.00035	mg/kg							
Ethyl tert-Butyl Ether (ETBE)	ND	0.0050	0.00058	mg/kg							
tert-Amyl Methyl Ether (TAME)	ND	0.0050	0.00064	mg/kg							
Methyl-tert-butyl Ether (MTBE)	ND	0.0050	0.0010	mg/kg							
tert-Butanol (TBA)	ND	0.050	0.0047	mg/kg							
Ethanol	ND	0.30	0.055	mg/kg							
Surrogate: DibromoFluoromethane	0.0525			mg/kg	0.0500	105	80-125				
Surrogate: Toluene-d8	0.0512			mg/kg	0.0500	102	80-120				
Surrogate: 4-BromoFluorobenzene	0.0502			mg/kg	0.0500	100	80-120				

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 Project Manager

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SECOR International, Inc.-Orange County  
 11085 Knott Ave, Suite B  
 Cypress, CA 90630  
 Attention: Cathy Sanford

Project ID: ARCO 6152, Newhall

Report Number: INK1107

Sampled: 11/15/04  
 Received: 11/15/04

### METHOD BLANK/QC DATA

### BTEX/OXYGENATES by GC/MS (EPA 5035/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Data Qualifiers
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Batch: 4K21010 Extracted: 11/21/04

**LCS Analyzed: 11/21/04 (4K21010-BS1)**

Benzene	0.0498	0.0020	0.00050	mg/kg	0.0500		100	70-120		
Ethylbenzene	0.0472	0.0020	0.00051	mg/kg	0.0500		94	75-125		
Toluene	0.0487	0.0020	0.00091	mg/kg	0.0500		97	75-120		
o-Xylene	0.0459	0.0020	0.00047	mg/kg	0.0500		92	80-125		
m,p-Xylenes	0.0921	0.0020	0.00075	mg/kg	0.100		92	80-125		
Xylenes, Total	0.138	0.0040	0.00075	mg/kg	0.150		92	80-125		
Di-isopropyl Ether (DIPE)	0.0561	0.0050	0.00035	mg/kg	0.0500		112	65-135		
Ethyl tert-Butyl Ether (ETBE)	0.0545	0.0050	0.00058	mg/kg	0.0500		109	60-140		
tert-Amyl Methyl Ether (TAME)	0.0571	0.0050	0.00064	mg/kg	0.0500		114	60-140		
Methyl-tert-butyl Ether (MTBE)	0.0572	0.0050	0.0010	mg/kg	0.0500		114	55-145		
tert-Butanol (TBA)	0.249	0.050	0.0047	mg/kg	0.250		100	70-140		
Ethanol	0.538	0.30	0.055	mg/kg	0.500		108	35-165		
<i>Surrogate: DibromoFluoromethane</i>	<i>0.0520</i>			mg/kg	<i>0.0500</i>		<i>104</i>	<i>80-125</i>		
<i>Surrogate: Toluene-d8</i>	<i>0.0511</i>			mg/kg	<i>0.0500</i>		<i>102</i>	<i>80-120</i>		
<i>Surrogate: 4-BromoFluorobenzene</i>	<i>0.0495</i>			mg/kg	<i>0.0500</i>		<i>99</i>	<i>80-120</i>		

**Matrix Spike Analyzed: 11/21/04 (4K21010-MS1)**

						Source: INK0875-01RE1				
Benzene	0.0538	0.0020	0.00050	mg/kg	0.0499	ND	108	65-130		
Ethylbenzene	0.0608	0.0020	0.00051	mg/kg	0.0499	0.0037	114	70-135		
Toluene	0.0534	0.0020	0.00091	mg/kg	0.0499	ND	107	70-125		
o-Xylene	0.0596	0.0020	0.00047	mg/kg	0.0499	0.0038	112	70-125		
m,p-Xylenes	0.135	0.0020	0.00075	mg/kg	0.0998	0.016	119	70-130		
Xylenes, Total	0.195	0.0040	0.00075	mg/kg	0.150	0.019	117	70-130		
Di-isopropyl Ether (DIPE)	0.0576	0.0050	0.00035	mg/kg	0.0499	ND	115	65-145		
Ethyl tert-Butyl Ether (ETBE)	0.0552	0.0050	0.00058	mg/kg	0.0499	ND	111	60-145		
tert-Amyl Methyl Ether (TAME)	0.0573	0.0050	0.00064	mg/kg	0.0499	ND	115	60-150		
Methyl-tert-butyl Ether (MTBE)	0.145	0.0050	0.0010	mg/kg	0.0499	0.061	168	50-155		
tert-Butanol (TBA)	0.331	0.050	0.0047	mg/kg	0.250	0.053	111	65-145		
Ethanol	0.537	0.30	0.055	mg/kg	0.499	ND	108	30-165		
<i>Surrogate: DibromoFluoromethane</i>	<i>0.0511</i>			mg/kg	<i>0.0499</i>		<i>102</i>	<i>80-125</i>		
<i>Surrogate: Toluene-d8</i>	<i>0.0513</i>			mg/kg	<i>0.0499</i>		<i>103</i>	<i>80-120</i>		
<i>Surrogate: 4-BromoFluorobenzene</i>	<i>0.0520</i>			mg/kg	<i>0.0499</i>		<i>104</i>	<i>80-120</i>		

LM,AY

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 Wendy Kirkeeng  
 Project Manager

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 Attention: Cathy Sanford

Project ID: ARCO 6152, Newhall

Report Number: INK1107

Sampled: 11/15/04  
 Received: 11/15/04

### METHOD BLANK/QC DATA

### BTEX/OXYGENATES by GC/MS (EPA 5035/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
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Batch: 4K21010 Extracted: 11/21/04

Matrix Spike Dup Analyzed: 11/21/04 (4K21010-MSD1)

Source: INK0875-01RE1

Benzene	0.0539	0.0020	0.00050	mg/kg	0.0499	ND	108	65-130	0	20	
Ethylbenzene	0.0562	0.0020	0.00051	mg/kg	0.0499	0.0037	105	70-135	8	25	
Toluene	0.0528	0.0020	0.00091	mg/kg	0.0499	ND	106	70-125	1	20	
<i>o</i> -Xylene	0.0561	0.0020	0.00047	mg/kg	0.0499	0.0038	105	70-125	6	25	
m,p-Xylenes	0.117	0.0020	0.00075	mg/kg	0.0998	0.016	101	70-130	14	25	
Xylenes, Total	0.173	0.0040	0.00075	mg/kg	0.150	0.019	103	70-130	12	25	
Di-isopropyl Ether (DIPE)	0.0570	0.0050	0.00035	mg/kg	0.0499	ND	114	65-145	1	25	
Ethyl tert-Butyl Ether (ETBE)	0.0528	0.0050	0.00058	mg/kg	0.0499	ND	106	60-145	4	30	
tert-Amyl Methyl Ether (TAME)	0.0546	0.0050	0.00064	mg/kg	0.0499	ND	109	60-150	5	25	
Methyl-tert-butyl Ether (MTBE)	0.160	0.0050	0.0010	mg/kg	0.0499	0.061	198	50-155	10	35	LMAY
tert-Butanol (TBA)	0.372	0.050	0.0047	mg/kg	0.250	0.053	128	65-145	12	30	
Ethanol	0.646	0.30	0.055	mg/kg	0.499	ND	129	30-165	18	40	
<i>Surrogate: Dibromofluoromethane</i>	0.0510			mg/kg	0.0499		102	80-125			
<i>Surrogate: Toluene-d8</i>	0.0509			mg/kg	0.0499		102	80-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0500			mg/kg	0.0499		100	80-120			

Batch: 4K22025 Extracted: 11/22/04

Blank Analyzed: 11/22/04 (4K22025-BLK1)

Benzene	ND	0.0020	0.00050	mg/kg							
Ethylbenzene	ND	0.0020	0.00051	mg/kg							
Toluene	ND	0.0020	0.00091	mg/kg							
<i>o</i> -Xylene	ND	0.0020	0.00047	mg/kg							
m,p-Xylenes	ND	0.0020	0.00075	mg/kg							
Xylenes, Total	ND	0.0040	0.00075	mg/kg							
Di-isopropyl Ether (DIPE)	ND	0.0050	0.00035	mg/kg							
Ethyl tert-Butyl Ether (ETBE)	ND	0.0050	0.00058	mg/kg							
tert-Amyl Methyl Ether (TAME)	ND	0.0050	0.00064	mg/kg							
Methyl-tert-butyl Ether (MTBE)	ND	0.0050	0.0010	mg/kg							
tert-Butanol (TBA)	ND	0.050	0.0047	mg/kg							
Ethanol	ND	0.30	0.055	mg/kg							
<i>Surrogate: Dibromofluoromethane</i>	0.0513			mg/kg	0.0500		103	80-125			
<i>Surrogate: Toluene-d8</i>	0.0540			mg/kg	0.0500		108	80-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0493			mg/kg	0.0500		99	80-120			

Del Mar Analytical, Irvine  
 Wendy Kirkeeng  
 Project Manager

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 9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851  
 2520 E. Sunset Rd. #3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

SECOR International, Inc.-Orange County  
 11085 Knott Ave, Suite B  
 Cypress, CA 90630  
 Attention: Cathy Sanford

Project ID: ARCO 6152, Newhall

Report Number: INK1107

Sampled: 11/15/04  
 Received: 11/15/04

### METHOD BLANK/QC DATA

### BTEX/OXYGENATES by GC/MS (EPA 5035/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
---------	--------	-----------------	-----	-------	-------------	---------------	------	-------------	-----	-----------	-----------------

Batch: 4K22025 Extracted: 11/22/04

**LCS Analyzed: 11/22/04 (4K22025-BS1)**

Benzene	0.0434	0.0020	0.00050	mg/kg	0.0500		87	70-120			
Ethylbenzene	0.0502	0.0020	0.00051	mg/kg	0.0500		100	75-125			
Toluene	0.0476	0.0020	0.00091	mg/kg	0.0500		95	75-120			
o-Xylene	0.0474	0.0020	0.00047	mg/kg	0.0500		95	80-125			
m,p-Xylenes	0.0965	0.0020	0.00075	mg/kg	0.100		96	80-125			
Xylenes, Total	0.144	0.0040	0.00075	mg/kg	0.150		96	80-125			
Di-isopropyl Ether (DIPE)	0.0494	0.0050	0.00035	mg/kg	0.0500		99	65-135			
Ethyl tert-Butyl Ether (ETBE)	0.0519	0.0050	0.00058	mg/kg	0.0500		104	60-140			
tert-Amyl Methyl Ether (TAME)	0.0546	0.0050	0.00064	mg/kg	0.0500		109	60-140			
Methyl-tert-butyl Ether (MTBE)	0.0557	0.0050	0.0010	mg/kg	0.0500		111	55-145			
tert-Butanol (TBA)	0.250	0.050	0.0047	mg/kg	0.250		100	70-140			
Ethanol	0.404	0.30	0.055	mg/kg	0.500		81	35-165			
<i>Surrogate: Dibromoiodomethane</i>	0.0522			mg/kg	0.0500		104	80-125			
<i>Surrogate: Toluene-d8</i>	0.0545			mg/kg	0.0500		109	80-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0534			mg/kg	0.0500		107	80-120			

**Matrix Spike Analyzed: 11/22/04 (4K22025-MS1)**

	Source: INK1480-10							
Benzene	0.0476	0.0020	0.00050	mg/kg	0.0499	ND	95	65-130
Ethylbenzene	0.0717	0.0020	0.00051	mg/kg	0.0499	0.019	106	70-135
Toluene	0.0521	0.0020	0.00091	mg/kg	0.0499	ND	104	70-125
o-Xylene	0.0514	0.0020	0.00047	mg/kg	0.0499	ND	103	70-125
m,p-Xylenes	0.106	0.0020	0.00075	mg/kg	0.0998	ND	106	70-130
Xylenes, Total	0.157	0.0040	0.00075	mg/kg	0.150	ND	105	70-130
Di-isopropyl Ether (DIPE)	0.0534	0.0050	0.00035	mg/kg	0.0499	ND	107	65-145
Ethyl tert-Butyl Ether (ETBE)	0.0576	0.0050	0.00058	mg/kg	0.0499	ND	115	60-145
tert-Amyl Methyl Ether (TAME)	0.0608	0.0050	0.00064	mg/kg	0.0499	ND	122	60-150
Methyl-tert-butyl Ether (MTBE)	0.0639	0.0050	0.0010	mg/kg	0.0499	0.0010	126	50-155
tert-Butanol (TBA)	0.255	0.050	0.0047	mg/kg	0.250	0.013	97	65-145
Ethanol	0.324	0.30	0.055	mg/kg	0.499	ND	65	30-165
<i>Surrogate: Dibromoiodomethane</i>	0.0530			mg/kg	0.0499		106	80-125
<i>Surrogate: Toluene-d8</i>	0.0548			mg/kg	0.0499		110	80-120
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0537			mg/kg	0.0499		108	80-120

**Del Mar Analytical, Irvine**  
 Wendy Kirkeeng  
 Project Manager

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SECOR International, Inc.-Orange County  
 11085 Knott Ave, Suite B  
 Cypress, CA 90630  
 Attention: Cathy Sanford

Project ID: ARCO 6152, Newhall

Report Number: INK1107

Sampled: 11/15/04  
 Received: 11/15/04

### METHOD BLANK/QC DATA

### BTEX/OXYGENATES by GC/MS (EPA 5035/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
---------	--------	-----------------	-----	-------	-------------	---------------	------	-------------	-----	-----------	-----------------

Batch: 4K22025 Extracted: 11/22/04

Matrix Spike Dup Analyzed: 11/22/04 (4K22025-MSD1)

Source: INK1480-10

Benzene	0.0478	0.0020	0.00050	mg/kg	0.0496	ND	96	65-130	0	20	
Ethylbenzene	0.0874	0.0020	0.00051	mg/kg	0.0496	0.019	138	70-135	20	25	LM,4Y
Toluene	0.0525	0.0020	0.00091	mg/kg	0.0496	ND	106	70-125	1	20	
o-Xylene	0.0512	0.0020	0.00047	mg/kg	0.0496	ND	103	70-125	0	25	
m,p-Xylenes	0.106	0.0020	0.00075	mg/kg	0.0992	ND	107	70-130	0	25	
Xylenes, Total	0.157	0.0040	0.00075	mg/kg	0.149	ND	105	70-130	0	25	
Di-isopropyl Ether (DIPE)	0.0494	0.0050	0.00035	mg/kg	0.0496	ND	100	65-145	8	25	
Ethyl tert-Butyl Ether (ETBE)	0.0500	0.0050	0.00058	mg/kg	0.0496	ND	101	60-145	14	30	
tert-Amyl Methyl Ether (TAME)	0.0510	0.0050	0.00064	mg/kg	0.0496	ND	103	60-150	18	25	
Methyl-tert-butyl Ether (MTBE)	0.0502	0.0050	0.0010	mg/kg	0.0496	0.0010	99	50-155	24	35	
tert-Butanol (TBA)	0.283	0.050	0.0047	mg/kg	0.248	0.013	109	65-145	10	30	
Ethanol	0.406	0.30	0.055	mg/kg	0.496	ND	82	30-165	22	40	
<i>Surrogate: Dibromoiodomethane</i>	<i>0.0514</i>			<i>mg/kg</i>	<i>0.0496</i>		<i>104</i>	<i>80-125</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0554</i>			<i>mg/kg</i>	<i>0.0496</i>		<i>112</i>	<i>80-120</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0517</i>			<i>mg/kg</i>	<i>0.0496</i>		<i>104</i>	<i>80-120</i>			

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 Wendy Kirkeeng  
 Project Manager

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SECOR International, Inc.-Orange County  
11085 Knott Ave, Suite B  
Cypress, CA 90630  
Attention: Cathy Sanford

Project ID: ARCO 6152, Newhall  
Report Number: INK1107

Sampled: 11/15/04  
Received: 11/15/04

## DATA QUALIFIERS AND DEFINITIONS

- IB,IA** CCV recovery above limit; analyte not detected, Results are valid even though CCV recovery outside of limits  
**J,DX** EPA Flag - Estimated value, Value < lowest standard (MQL), but > than MDL  
**LM,AY** The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).  
**LO** MS and/or MSD result unavailable. Batch accept. based on LCS rec.  
**ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.  
**RPD** Relative Percent Difference

## ADDITIONAL COMMENTS

### For 8260 analyses:

Due to the high water solubility of alcohols and ketones, the calibration criteria for these compounds is <30% RSD.  
The average % RSD of all compounds in the calibration is 15%, in accordance with EPA methods.

### For GRO (C4-C12):

GRO (C4-C12) is quantitated against a gasoline standard. Quantitation begins immediately following the methanol peak.

## 8015 Analysis EDF Parlabel Cross Reference

Analyte	EDF
GRO (C4 - C12)	Parlabel GROC4C12

Del Mar Analytical, Irvine  
Wendy Kirkeeng  
Project Manager

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Cypress, CA 90630  
Attention: Cathy Sanford

Project ID: ARCO 6152, Newhall

Report Number: INK1107

Sampled: 11/15/04  
Received: 11/15/04

### Certification Summary

Del Mar Analytical, Irvine

Method	Matrix	NELAP	CA
EPA 8015B	Soil	X	X
EPA 8015B	Water	X	X
EPA 8260B	Soil	X	X
EPA 8260B	Water	X	X

NV and NELAP provide analyte specific accreditations. Analyte specific information for Del Mar Analytical may be obtained by contacting the laboratory or visiting our website at [www.dmalabs.com](http://www.dmalabs.com).

Del Mar Analytical, Irvine  
Wendy Kirkeeng  
Project Manager

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## Chain of Custody Record

SITE DEMOLITION

BP BU/AR Region/Enviro Segment:

San Diego/West LA

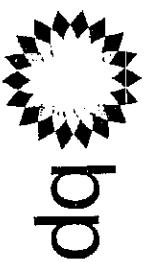
Project Name: BP BU/AR Region/Enviro Segment:

Public Works - LA County

State or Lead Regulatory Agency:

Requested Due Date (mm/dd/yy):

On-site:	Time:	Temp:	Time:	Temp:
Off-site:	Time:	Temp:	Time:	Temp:
Sky Conditions:				
Meteorological Events:				
Wind Speed:				
Direction:				
Lab Name: DeMar Analytical BP/AR Facility No.: 6152 BP/AR Facility Address: 24018 Lyons Avenue Site Lat/Long: Irvine, CA 92606 California Global ID No.: G09K4-0530 Enviro Project No.: 949-261-1022 / 1228 (Fax) Provision or RCOP (circle one) RCOP Phase/WBS: Raze and Rebuild Sub Phase/Task: La Palma, CA 90623 Lab/Fax: 661-287-3855/661-222-7349 Lab/Bottle Order No:				
Consultant/Contractor: SECOR International Address: 11055 Knott Ave, Suite B Cypress, CA Consultant/Contractor Project No.: 14BP-06152.01 Consultant/Contractor PM: Cathy Sanford Tele/Fax: 714-379-3366/3375 Report Type & QC Level: E-mail/EDD To: bauchard@secor.com				
Invoice to: Consultant or BP or Atlantic Richfield Co. (circle one)				
<b>Sample Point Lat/Long and Comments</b> <div style="text-align: center; margin-left: 100px;"><i>KV</i></div>				
<b>Requested Analysis</b>				
Matrix      Preservative      Urethane No. of Containers      HCl      HNO <sub>3</sub> Laboratory No.      H <sub>2</sub> SO <sub>4</sub> NaOH Sample Description      Air      Metaldehyde Item No.      Date      H <sub>2</sub> O <sub>2</sub>				
1	TP 6152, 20th/15	1/25/15	X	X
2	Enviro 6152, 200th/15	1/25/15	X	X
3	D-1-2	1/25/15	X	X
4	D-2-2	1/25/15	X	X
5	D-3-2	1/25/15	X	X
6	D-4-2	1/25/15	X	X
7	PL-1-2	1/25/15	X	X
8	PL-2-2	1/25/15	X	X
9	PL-3-2	1/25/15	X	X
10	PL-4-2	1/25/15	X	X
Relining sheet/Container <i>Enviro 6152, 200th/15</i>				
Assisted By/Affiliation      Date      Time <i>BSP/SECOR</i> 1/25/15 1545				
Sampler's Name: Michael J. Sorenson Sampler's Company: SECOR Shipment Date: 1/26/14 Shipment Method: <i>UPS</i> Shipment Tracking No.: <i>1Z2142044204</i> Special Instructions:				
Temp Blank Yes: <input checked="" type="checkbox"/> No: <input type="checkbox"/> Cooler Temperature on Receipt: 74 °F/C Trip Blank Yes: <input checked="" type="checkbox"/> No: <input type="checkbox"/> BP COC Rev. 4 10/10/04				



## Chain of Custody Received

92357

Page 2 of 2

Project Name Site Demolition  
 BP BL/GEM CO Portfolio: San Diego West CA  
 BP Laboratory Contract Number: PUBL Works UC San Diego

Requested Due Date (mm/dd/yy) 7/16/05 Project # G09K4 - 0530

Date (mm/dd/yy) 7/15/05

On-site Time:	Temp:
Off-site Time:	Temp:
Sky Conditions:	
Meteorological Events:	

Wind Speed: 0 mph Email EDP TO: banchende@scranton.com

Send To: Def. mcr BP/GEM Facility No.: 11085

BP/GEM Facility Address: 24018 Lyons Ave

Site ID No.: 11085

Site Lat/Long: California Global ID #: 11085

BP/GEM PM Contact: Cathy Sanford

Address: Consultant/Contractor Tel/Fax: 714 865-1520

Consultant/Contractor Project No.: NY BP 06152.01

Consultant/Contractor Tel/Fax: 714 865-1520

Consultant/Contractor PM: Cathy Sanford

Invoice to: Consultant or BP or Atlantic Richfield Co (Circle one)

BP/GEM Work Release No.: 11085

Report Type & QC Level: BP/GEM Account No.: Lab Bottle Order No.

Item No.	Sample Description	Time	Date	Soil/Solid Water/Liquid Air	Matrix	Laboratory No.	No. of containers	Preservatives			Sample Point Lat/Long and Comments
								Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	
1	T-1A	1240	11/15/05	X				X			
2	T-2B	1310	11/15/05	X							
3	T-2A	1225	11/15/05	X				X			
4	T-2B	1305	11/15/05	X							
5	T-3A	1234	11/15/05	X				X			
6	T-3B	1255	11/15/05	X				X			
7	T-4A	1225	11/15/05	X				X			
8	T-4B	1250	11/15/05	X				X			
9											
10											

Relinquished By / Affiliation Michael J. Murphy Date 11/15/05 Time 12:25 PM Accepted By / Affiliation Brian Becker Date 11/15/05 Time 1:54 PM

Sampler's Name: Michael J. Murphy  
 Sampler's Company: BP GEM  
 Shipment Date: 11/15/05  
 Shipment Method: Ground  
 Shipment Tracking No.: 1115011920

Special Instructions:

Custody Seals In Place Yes No

Cooler Temperature on Receipt 44 °F/C

Trip Blank Yes No

LABORATORY

BP COC Rev. 2 4/18/03



## Chain of Custody Record

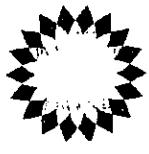
**Project Name:** SITE DEMOLITION  
**BP BU/AR Region/Envos Segment:** San Diego/West LA  
**State or Lead Regulatory Agency:** Public Works - LA County

**Requested Due Date (mm/dd/yy):**

On-site	Time:	Temp:
Off-site	Time:	Temp:
Sky Conditions:		
Meteorological Events:		
Wind Speed:		Direction:

Page 1 of 2

Lab/Bottle Order No.		Sample Description	Time	Date	Matrix	Preservative	Requested Analysis	Sample Point Lat/Long and Comments
Item No.								
1	TB-06/92-20041115	1525	11/15/04	X	2	X	X	
2	EB-06/92-20041115	1505	11/15/04	X	4	X	X	
3	D-1-2	1350	4/15/04	X	6	X	X	
4	D-2-2	1400	4/15/04	X	6	X	X	
5	D-3-2	1410	4/15/04	X	6	X	X	
6	D-4-2	1420	4/15/04	X	6	X	X	
7	PL-1-2	1440	4/15/04	X	6	X	X	
8	PL-2-2	1450	4/15/04	X	6	X	X	
9	PL-3-2	1500	4/15/04	X	6	X	X	
10	PL-4-2	1510	4/15/04	X	6	X	X	
Relinquished by AR/Analyst		Date	Time	Accepted By / Affiliation		Date	Time	
<i>Michael Sundstrom</i>		1450	4/15/04	BESCO		1450	4/15/04	
Sampler's Name:								
Sampler's Company:								
Shipment Date:								
Shipment Method:								
Shipment Tracking No.:								
Special Instructions:								
Custody Seals In Place Yes		No <input checked="" type="checkbox"/>	Temp Blank Yes	No <input checked="" type="checkbox"/>	Cooler Temperature on Receipt <input checked="" type="checkbox"/>	45°F/C	Temp Blank Yes	No <input checked="" type="checkbox"/>
Distribution: White Copy - Laboratory / Yellow Copy - BP/Atlantic Richfield Co. / Pink Copy - Consultant/Contractor								
BP COC Rev. 4 10/1/04								



8

## Chain of Custody Record

196357

Page 2 of 2

<b>Chain of Custody Record</b>	
<b>Project Name</b>	<u>Si-Te Demolition</u>
<b>BP BUGEM CO Portfolio:</b>	<u>San Diego Library Ctr</u>
<b>BP Laboratory Contract Number:</b>	<u>PUBLE Works-LC-0001</u>
<b>Requested Due Date (mm/dd/yy)</b>	<u>2023-05-30</u>
On-site Time:	Temp:
Off-site Time:	Temp:
Sky Conditions:	
Meteorological Events:	
Wind Speed:	Direction:
Email EDP TO: <u>banchard@sever.com</u>	

<b>Send To:</b>	<i>Dell Mar</i>		
<b>BP/GEM Facility No.:</b>	<i>1152</i>		
<b>BP/GEM Facility Address:</b>	<i>24018 Lyons NE</i>		
<b>Lab Name:</b>			
<b>Lab Address:</b>			
<b>Site ID No.</b>	<i>Lynden, CA</i>		
<b>Site Lat/Long:</b>	<i>37° 45' N, 122° 15' W</i>		
<b>California Global ID #:</b>	<i>14 DP 06152.01</i>		
<b>BP/GEM PM Contact:</b>	<i>Cathy Sandford</i>		
<b>Address:</b>			
<b>Consultant/Contractor PM:</b>	<i>Cathy Sandford</i>		
<b>Consultant/Contractor Project No.:</b>	<i>14 DP 06152.01</i>		
<b>Consultant/Contractor TeleFax:</b>			
<b>Invoice to:</b>	<i>Consultant or BP or Atlantic Richfield Co (Circle one)</i>		
<b>BP/GEM Work Release No.:</b>			
<b>Report Type &amp; QC Level:</b>	<i>Requested Analysis</i>		
<b>BP/GEM Account No.:</b>			
<b>Tele/Fax:</b>			
<b>Representative:</b>			

Item No.	Sample Description	Time			Laboratory No.	No. of containers	Matrix	Sample Point Lat/Long and Comments
		Date	Soil/Solid	Water/Liquid				
		Air						
1	T-1A	1240	11/15/04	X				
2	T-2B	1310	11/15/04	X				
3	T-2A	1235	11/15/04	X				
4	T-2B	1245	11/15/04	X				
5	T-3A	1230	11/15/04	X				
6	T-3B	1255	11/15/04	X				
7	T-4A	1225	11/15/04	X				
8	T-4B	1250	11/15/04	X				
9								
10								
Sampler's Name: Michael Sungibong		Relinquished By / Affiliation <i>Michael Sungibong</i>	Date 11/15/04	Time 1445	Accepted By / Affiliation <i>BSR Beers</i>	Date 11/15/04	Time 1545	Comments GRO C4-GF (8260)
Sampler's Company: SBCOR								
Shipment Date:								
Shipment Method:								
Shipment Tracking No.:								

**Custody Seals In Place Yes**

Cooler T

Cooler Temperature on Receipt 64 °F/C

No



# Del Mar Analytical

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## LABORATORY REPORT

Prepared For: SECOR International, Inc.-Orange County  
11085 Knott Ave, Suite B  
Cypress, CA 90630  
Attention: Cathy Sanford

Project: ARCO 6152, Newhall

Sampled: 11/23/04  
Received: 11/23/04  
Issued: 12/07/04 10:09

NELAP #01108CA CA ELAP #1197 CSDLAC #10117

*The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of Del Mar Analytical and its client. This report shall not be reproduced, except in full, without written permission from Del Mar Analytical. The Chain of Custody, 1 page, is included and is an integral part of this report.*

*This entire report was reviewed and approved for release.*

### CASE NARRATIVE

SAMPLE RECEIPT: Samples were received intact, at 4°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the Del Mar Analytical Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: Results that fall between the MDL and RL are 'J' flagged.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

LABORATORY ID	CLIENT ID	MATRIX
INK1713-01	PL-5-2	Soil
INK1713-02	PL-6-2	Soil
INK1713-03	PL-7-2	Soil
INK1713-04	EB-6152-20041123	Water

Reviewed By:

Del Mar Analytical, Irvine  
Wendy Kirkeeng  
Project Manager



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SECOR International, Inc.-Orange County  
11085 Knott Ave, Suite B  
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Attention: Cathy Sanford

Project ID: ARCO 6152, Newhall

Report Number: INK1713

Sampled: 11/23/04

Received: 11/23/04

## VOLATILE FUEL HYDROCARBONS (EPA 5030/8015M)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: INK1713-04 (EB-6152-20041123 - Water)</b>									
Reporting Units: ug/l									
GRO (C4 - C12)	EPA 8015B	4L03005	22	50	25	1	12/03/04	12/03/04	J,DX
Surrogate: 4-BFB (FID) (60-135%)									

Del Mar Analytical, Irvine  
Wendy Kirkeeng  
Project Manager

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Project ID: ARCO 6152, Newhall

Report Number: INK1713

Sampled: 11/23/04

Received: 11/23/04

**VOLATILE FUEL HYDROCARBONS (EPA 5035B/CADHS Mod. 8015)**

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: INK1713-01 (PL-5-2 - Soil)</b>									
Reporting Units: mg/kg									
GRO (C4 - C12)									
Surrogate: 4-BFB (FID) (65-135%)	EPA 8015B	4K24006	0.11	0.84	ND	0.836	11/24/04	11/24/04	65 %
<b>Sample ID: INK1713-02 (PL-6-2 - Soil)</b>									
Reporting Units: mg/kg									
GRO (C4 - C12)									
Surrogate: 4-BFB (FID) (65-135%)	EPA 8015B	4K24006	0.13	1.0	ND	0.921	11/24/04	11/24/04	89 %
<b>Sample ID: INK1713-03 (PL-7-2 - Soil)</b>									
Reporting Units: mg/kg									
GRO (C4 - C12)									
Surrogate: 4-BFB (FID) (65-135%)	EPA 8015B	4K24128	0.12	0.89	ND	0.89	11/24/04	11/24/04	94 %

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 Project Manager

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 Attention: Cathy Sanford

Project ID: ARCO 6152, Newhall

Report Number: INK1713

Sampled: 11/23/04

Received: 11/23/04

**BTEX/OXYGENATES by GC/MS (EPA 8260B)**

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Date Qualifiers
<b>Sample ID: INK1713-04 (EB-6152-20041123 - Water)</b>									
Reporting Units: ug/l									
Benzene	EPA 8260B	4L03045	0.28	2.0	0.40	1	12/03/04	12/04/04	J,DX
Ethylbenzene	EPA 8260B	4L03045	0.25	2.0	ND	1	12/03/04	12/04/04	
Toluene	EPA 8260B	4L03045	0.36	2.0	0.93	1	12/03/04	12/04/04	J,DX
m,p-Xylenes	EPA 8260B	4L03045	0.52	2.0	ND	1	12/03/04	12/04/04	
o-Xylene	EPA 8260B	4L03045	0.24	2.0	ND	1	12/03/04	12/04/04	
Xylenes, Total	EPA 8260B	4L03045	0.52	4.0	ND	1	12/03/04	12/04/04	
Di-isopropyl Ether (DIPE)	EPA 8260B	4L03045	0.25	5.0	ND	1	12/03/04	12/04/04	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	4L03045	0.28	5.0	ND	1	12/03/04	12/04/04	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	4L03045	0.33	5.0	ND	1	12/03/04	12/04/04	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	4L03045	0.32	5.0	ND	1	12/03/04	12/04/04	
tert-Butanol (TBA)	EPA 8260B	4L03045	3.1	50	ND	1	12/03/04	12/04/04	
Ethanol	EPA 8260B	4L03045	100	150	ND	1	12/03/04	12/04/04	
<i>Surrogate: Dibromofluoromethane (80-120%)</i>									
107 %									
<i>Surrogate: Toluene-d8 (80-120%)</i>									
104 %									
<i>Surrogate: 4-Bromoanisole (80-120%)</i>									
101 %									

**Del Mar Analytical, Irvine**  
 Wendy Kirkeeng  
 Project Manager

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 Attention: Cathy Sanford

Project ID: ARCO 6152, Newhall

Report Number: INK1713

Sampled: 11/23/04

Received: 11/23/04

**BTEX/OXYGENATES by GC/MS (EPA 5035/8260B)**

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
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**Sample ID: INK1713-01 (PL-5-2 - Soil)**

Reporting Units: mg/kg

Benzene	EPA 8260B	4K26027	0.00043	0.0017	ND	0.862	11/26/04	11/26/04
Ethylbenzene	EPA 8260B	4K26027	0.00044	0.0017	ND	0.862	11/26/04	11/26/04
Toluene	EPA 8260B	4K26027	0.00078	0.0017	ND	0.862	11/26/04	11/26/04
o-Xylene	EPA 8260B	4K26027	0.00041	0.0017	ND	0.862	11/26/04	11/26/04
m,p-Xylenes	EPA 8260B	4K26027	0.00065	0.0017	ND	0.862	11/26/04	11/26/04
Xylenes, Total	EPA 8260B	4K26027	0.00065	0.0034	ND	0.862	11/26/04	11/26/04
Di-isopropyl Ether (DIPE)	EPA 8260B	4K26027	0.00030	0.0043	ND	0.862	11/26/04	11/26/04
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	4K26027	0.00050	0.0043	ND	0.862	11/26/04	11/26/04
tert-Amyl Methyl Ether (TAME)	EPA 8260B	4K26027	0.00055	0.0043	ND	0.862	11/26/04	11/26/04
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	4K26027	0.00086	0.0043	ND	0.862	11/26/04	11/26/04
tert-Butanol (TBA)	EPA 8260B	4K26027	0.0041	0.043	ND	0.862	11/26/04	11/26/04
Ethanol	EPA 8260B	4K26027	0.047	0.26	ND	0.862	11/26/04	11/26/04

Surrogate: Dibromoformmethane (80-125%)

102 %

Surrogate: Toluene-d8 (80-120%)

106 %

Surrogate: 4-Bromofluorobenzene (80-120%)

97 %

**Sample ID: INK1713-02 (PL-6-2 - Soil)**

Reporting Units: mg/kg

Benzene	EPA 8260B	4K26027	0.00050	0.0020	ND	0.912	11/26/04	11/27/04
Ethylbenzene	EPA 8260B	4K26027	0.00051	0.0020	ND	0.912	11/26/04	11/27/04
Toluene	EPA 8260B	4K26027	0.00091	0.0020	ND	0.912	11/26/04	11/27/04
o-Xylene	EPA 8260B	4K26027	0.00047	0.0020	ND	0.912	11/26/04	11/27/04
m,p-Xylenes	EPA 8260B	4K26027	0.00075	0.0020	ND	0.912	11/26/04	11/27/04
Xylenes, Total	EPA 8260B	4K26027	0.00075	0.0040	ND	0.912	11/26/04	11/27/04
Di-isopropyl Ether (DIPE)	EPA 8260B	4K26027	0.00035	0.0050	ND	0.912	11/26/04	11/27/04
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	4K26027	0.00058	0.0050	ND	0.912	11/26/04	11/27/04
tert-Amyl Methyl Ether (TAME)	EPA 8260B	4K26027	0.00064	0.0050	ND	0.912	11/26/04	11/27/04
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	4K26027	0.0010	0.0050	ND	0.912	11/26/04	11/27/04
tert-Butanol (TBA)	EPA 8260B	4K26027	0.0047	0.050	ND	0.912	11/26/04	11/27/04
Ethanol	EPA 8260B	4K26027	0.055	0.30	ND	0.912	11/26/04	11/27/04

Surrogate: Dibromoformmethane (80-125%)

103 %

Surrogate: Toluene-d8 (80-120%)

105 %

Surrogate: 4-Bromofluorobenzene (80-120%)

97 %

**Del Mar Analytical, Irvine**

Wendy Kirkeeng  
 Project Manager

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 Attention: Cathy Sanford

Project ID: ARCO 6152, Newhall

Report Number: INK1713

Sampled: 11/23/04

Received: 11/23/04

## BTEX/OXYGENATES by GC/MS (EPA 5035/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: INK1713-03 (PL-7-2 - Soil)</b>									
Reporting Units: mg/kg									
Benzene	EPA 8260B	4K29030	0.00042	0.0017	ND	0.836	11/29/04	11/29/04	
Ethylbenzene	EPA 8260B	4K29030	0.00043	0.0017	ND	0.836	11/29/04	11/29/04	
Toluene	EPA 8260B	4K29030	0.00076	0.0017	ND	0.836	11/29/04	11/29/04	
o-Xylene	EPA 8260B	4K29030	0.00039	0.0017	ND	0.836	11/29/04	11/29/04	
m,p-Xylenes	EPA 8260B	4K29030	0.00063	0.0017	ND	0.836	11/29/04	11/29/04	
Xylenes, Total	EPA 8260B	4K29030	0.00063	0.0033	ND	0.836	11/29/04	11/29/04	
Di-isopropyl Ether (DIPE)	EPA 8260B	4K29030	0.00029	0.0042	ND	0.836	11/29/04	11/29/04	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	4K29030	0.00048	0.0042	ND	0.836	11/29/04	11/29/04	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	4K29030	0.00054	0.0042	ND	0.836	11/29/04	11/29/04	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	4K29030	0.00084	0.0042	ND	0.836	11/29/04	11/29/04	
tert-Butanol (TBA)	EPA 8260B	4K29030	0.0039	0.042	ND	0.836	11/29/04	11/29/04	
Ethanol	EPA 8260B	4K29030	0.046	0.25	ND	0.836	11/29/04	11/29/04	
<i>Surrogate: Dibromoiodomethane (80-125%)</i>									
107 %									
<i>Surrogate: Toluene-d8 (80-120%)</i>									
106 %									
<i>Surrogate: 4-Bromofluorobenzene (80-120%)</i>									
94 %									

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 Project Manager

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Project ID: ARCO 6152, Newhall

Report Number: INK1713

Sampled: 11/23/04

Received: 11/23/04

### METHOD BLANK/QC DATA

### VOLATILE FUEL HYDROCARBONS (EPA 5030/8015M)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC Limits	RPD RPD	RPD Limit	Data Qualifiers
<b>Batch: 4L03005 Extracted: 12/03/04</b>										
<b>Blank Analyzed: 12/03/04 (4L03005-BLK1)</b>										
GRO (C4 - C12)	ND	50	22	ug/l						
Surrogate: 4-BFB (FID)	10.3			ug/l	10.0		103	60-135		
<b>LCS Analyzed: 12/03/04 (4L03005-BS1)</b>										
GRO (C4 - C12)	276	50	22	ug/l	220		125	70-135		
Surrogate: 4-BFB (FID)	13.3			ug/l	10.0		133	60-135		
<b>Matrix Spike Analyzed: 12/03/04 (4L03005-MS1)</b>										
GRO (C4 - C12)	275	50	22	ug/l	220	26	113	60-135		
Surrogate: 4-BFB (FID)	12.3			ug/l	10.0		123	60-135		
<b>Matrix Spike Dup Analyzed: 12/03/04 (4L03005-MSD1)</b>										
GRO (C4 - C12)	277	50	22	ug/l	220	26	114	60-135	1	20
Surrogate: 4-BFB (FID)	12.6			ug/l	10.0		126	60-135		

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Sampled: 11/23/04

Received: 11/23/04

### METHOD BLANK/QC DATA

### VOLATILE FUEL HYDROCARBONS (EPA 5035B/CADHS Mod. 8015)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC Limits	RPD RPD	RPD Limit	Data Qualifiers
<b>Batch: 4K24006 Extracted: 11/24/04</b>										
<b>Blank Analyzed: 11/24/04 (4K24006-BLK1)</b>										
GRO (C4 - C12)	ND	1.0	0.13	mg/kg						
<i>Surrogate: 4-BFB (FID)</i>	0.0216			mg/kg	0.0200		108	65-135		
<b>LCS Analyzed: 11/24/04 (4K24006-BS1)</b>										
GRO (C4 - C12)	0.540	1.0	0.13	mg/kg	0.440		123	75-130		DU
<i>Surrogate: 4-BFB (FID)</i>	0.0226			mg/kg	0.0200		113	65-135		J,DX
<b>LCS Dup Analyzed: 11/24/04 (4K24006-BSD1)</b>										
GRO (C4 - C12)	0.517	1.0	0.13	mg/kg	0.440		118	75-130	4	20
<i>Surrogate: 4-BFB (FID)</i>	0.0219			mg/kg	0.0200		110	65-135		J,DX
<b>Batch: 4K24128 Extracted: 11/24/04</b>										
<b>Blank Analyzed: 11/24/04 (4K24128-BLK1)</b>										
GRO (C4 - C12)	ND	1.0	0.13	mg/kg						
<i>Surrogate: 4-BFB (FID)</i>	0.0205			mg/kg	0.0200		102	65-135		
<b>LCS Analyzed: 11/24/04 (4K24128-BS1)</b>										
GRO (C4 - C12)	0.452	1.0	0.13	mg/kg	0.440		103	75-130		J,DX
<i>Surrogate: 4-BFB (FID)</i>	0.0229			mg/kg	0.0200		114	65-135		
<b>LCS Dup Analyzed: 11/24/04 (4K24128-BSD1)</b>										
GRO (C4 - C12)	0.452	1.0	0.13	mg/kg	0.440		103	75-130	0	20
<i>Surrogate: 4-BFB (FID)</i>	0.0221			mg/kg	0.0200		110	65-135		J,DX

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 Attention: Cathy Sanford

Project ID: ARCO 6152, Newhall

Report Number: INK1713

Sampled: 11/23/04

Received: 11/23/04

### METHOD BLANK/QC DATA

### BTEX/OXYGENATES by GC/MS (EPA 8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC Limits	RPD RPD	RPD Limit	Data Qualifiers
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Batch: 4L03045 Extracted: 12/03/04

**Blank Analyzed: 12/03/04 (4L03045-BLK1)**

Benzene	ND	2.0	0.28	ug/l						
Ethylbenzene	ND	2.0	0.25	ug/l						
Toluene	ND	2.0	0.36	ug/l						
m,p-Xylenes	ND	2.0	0.52	ug/l						
o-Xylene	ND	2.0	0.24	ug/l						
Xylenes, Total	ND	4.0	0.52	ug/l						
Di-isopropyl Ether (DIPE)	ND	5.0	0.25	ug/l						
Ethyl tert-Butyl Ether (ETBE)	ND	5.0	0.28	ug/l						
tert-Amyl Methyl Ether (TAME)	ND	5.0	0.33	ug/l						
Methyl-tert-butyl Ether (MTBE)	ND	5.0	0.32	ug/l						
tert-Butanol (TBA)	ND	50	3.1	ug/l						
Ethanol	ND	150	100	ug/l						
<i>Surrogate: DibromoFluoromethane</i>	24.8			ug/l	25.0		99	80-120		
<i>Surrogate: Toluene-d8</i>	26.0			ug/l	25.0		104	80-120		
<i>Surrogate: 4-BromoFluorobenzene</i>	24.5			ug/l	25.0		98	80-120		

**LCS Analyzed: 12/03/04 (4L03045-BS1)**

Benzene	22.4	2.0	0.28	ug/l	25.0		90	70-120		
Ethylbenzene	23.5	2.0	0.25	ug/l	25.0		94	80-120		
Toluene	23.4	2.0	0.36	ug/l	25.0		94	75-120		
m,p-Xylenes	47.5	2.0	0.52	ug/l	50.0		95	75-120		
o-Xylene	23.0	2.0	0.24	ug/l	25.0		92	75-125		
Xylenes, Total	70.5	4.0	0.52	ug/l	75.0		94	75-125		
Di-isopropyl Ether (DIPE)	22.7	5.0	0.25	ug/l	25.0		91	65-135		
Ethyl tert-Butyl Ether (ETBE)	22.9	5.0	0.28	ug/l	25.0		92	60-140		
tert-Amyl Methyl Ether (TAME)	23.0	5.0	0.33	ug/l	25.0		92	60-140		
Methyl-tert-butyl Ether (MTBE)	22.4	5.0	0.32	ug/l	25.0		90	55-145		
tert-Butanol (TBA)	135	50	3.1	ug/l	125		108	70-140		
Ethanol	225	150	100	ug/l	250		90	35-165		
<i>Surrogate: DibromoFluoromethane</i>	24.7			ug/l	25.0		99	80-120		
<i>Surrogate: Toluene-d8</i>	26.0			ug/l	25.0		104	80-120		
<i>Surrogate: 4-BromoFluorobenzene</i>	24.6			ug/l	25.0		98	80-120		

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 Project Manager

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SECOR International, Inc.-Orange County  
 11085 Knott Ave, Suite B  
 Cypress, CA 90630  
 Attention: Cathy Sanford

Project ID: ARCO 6152, Newhall

Report Number: INK1713

Sampled: 11/23/04

Received: 11/23/04

### METHOD BLANK/QC DATA

### BTEX/OXYGENATES by GC/MS (EPA 8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
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Batch: 4L03045 Extracted: 12/03/04

**Matrix Spike Analyzed: 12/03/04 (4L03045-MS1)**

		Source: INK1703-04						
Benzene	35.6	2.0	0.28	ug/l	25.0	12	94	70-120
Ethylbenzene	25.4	2.0	0.25	ug/l	25.0	ND	102	70-130
Toluene	25.7	2.0	0.36	ug/l	25.0	ND	103	70-120
m,p-Xylenes	50.6	2.0	0.52	ug/l	50.0	ND	101	65-130
o-Xylene	24.7	2.0	0.24	ug/l	25.0	ND	99	65-125
Xylenes, Total	75.4	4.0	0.52	ug/l	75.0	ND	101	65-135
Di-isopropyl Ether (DIPE)	25.9	5.0	0.25	ug/l	25.0	ND	104	65-140
Ethyl tert-Butyl Ether (ETBE)	25.4	5.0	0.28	ug/l	25.0	ND	102	60-140
tert-Amyl Methyl Ether (TAME)	26.4	5.0	0.33	ug/l	25.0	ND	106	55-145
Methyl-tert-butyl Ether (MTBE)	26.2	5.0	0.32	ug/l	25.0	0.59	102	50-155
tert-Butanol (TBA)	131	50	3.1	ug/l	125	ND	105	65-145
Ethanol	227	150	100	ug/l	250	ND	91	35-165
<i>Surrogate: DibromoFluoromethane</i>	26.0			ug/l	25.0		104	80-120
<i>Surrogate: Toluene-d8</i>	26.4			ug/l	25.0		106	80-120
<i>Surrogate: 4-BromoFluorobenzene</i>	25.5			ug/l	25.0		102	80-120

**Matrix Spike Dup Analyzed: 12/03/04 (4L03045-MSD1)**

		Source: INK1703-04						
Benzene	35.9	2.0	0.28	ug/l	25.0	12	96	70-120
Ethylbenzene	25.2	2.0	0.25	ug/l	25.0	ND	101	70-130
Toluene	26.3	2.0	0.36	ug/l	25.0	ND	105	70-120
m,p-Xylenes	49.7	2.0	0.52	ug/l	50.0	ND	99	65-130
o-Xylene	24.4	2.0	0.24	ug/l	25.0	ND	98	65-125
Xylenes, Total	74.2	4.0	0.52	ug/l	75.0	ND	99	65-135
Di-isopropyl Ether (DIPE)	26.4	5.0	0.25	ug/l	25.0	ND	106	65-140
Ethyl tert-Butyl Ether (ETBE)	26.0	5.0	0.28	ug/l	25.0	ND	104	60-140
tert-Amyl Methyl Ether (TAME)	26.7	5.0	0.33	ug/l	25.0	ND	107	55-145
Methyl-tert-butyl Ether (MTBE)	26.7	5.0	0.32	ug/l	25.0	0.59	104	50-155
tert-Butanol (TBA)	133	50	3.1	ug/l	125	ND	106	65-145
Ethanol	227	150	100	ug/l	250	ND	91	35-165
<i>Surrogate: DibromoFluoromethane</i>	26.3			ug/l	25.0		105	80-120
<i>Surrogate: Toluene-d8</i>	26.5			ug/l	25.0		106	80-120
<i>Surrogate: 4-BromoFluorobenzene</i>	25.0			ug/l	25.0		100	80-120

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 Project Manager

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SECOR International, Inc.-Orange County  
 11085 Knott Ave, Suite B  
 Cypress, CA 90630  
 Attention: Cathy Sanford

Project ID: ARCO 6152, Newhall

Report Number: INK1713

Sampled: 11/23/04

Received: 11/23/04

### METHOD BLANK/QC DATA

### BTEX/OXYGENATES by GC/MS (EPA 5035/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD RPD	RPD Limit	Data Qualifiers
<b>Batch: 4K26027 Extracted: 11/26/04</b>											
<b>Blank Analyzed: 11/26/04 (4K26027-BLK1)</b>											
Benzene	ND	0.0020	0.00050	mg/kg							
Ethylbenzene	ND	0.0020	0.00051	mg/kg							
Toluene	ND	0.0020	0.00091	mg/kg							
o-Xylene	ND	0.0020	0.00047	mg/kg							
m,p-Xylenes	ND	0.0020	0.00075	mg/kg							
Xylenes, Total	ND	0.0040	0.00075	mg/kg							
Di-isopropyl Ether (DIPE)	ND	0.0050	0.00035	mg/kg							
Ethyl tert-Butyl Ether (ETBE)	ND	0.0050	0.00058	mg/kg							
tert-Amyl Methyl Ether (TAME)	ND	0.0050	0.00064	mg/kg							
Methyl-tert-butyl Ether (MTBE)	ND	0.0050	0.0010	mg/kg							
tert-Butanol (TBA)	ND	0.050	0.0047	mg/kg							
Ethanol	ND	0.30	0.055	mg/kg							
<i>Surrogate: Dibromoformmethane</i>	0.0486			mg/kg	0.0500		97	80-125			
<i>Surrogate: Toluene-d8</i>	0.0527			mg/kg	0.0500		105	80-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0464			mg/kg	0.0500		93	80-120			
<b>LCS Analyzed: 11/26/04 (4K26027-BS1)</b>											
Benzene	0.0515	0.0020	0.00050	mg/kg	0.0500		103	70-120			
Ethylbenzene	0.0489	0.0020	0.00051	mg/kg	0.0500		98	75-125			
Toluene	0.0480	0.0020	0.00091	mg/kg	0.0500		96	75-120			
o-Xylene	0.0496	0.0020	0.00047	mg/kg	0.0500		99	80-125			
m,p-Xylenes	0.103	0.0020	0.00075	mg/kg	0.100		103	80-125			
Xylenes, Total	0.152	0.0040	0.00075	mg/kg	0.150		101	80-125			
Di-isopropyl Ether (DIPE)	0.0503	0.0050	0.00035	mg/kg	0.0500		101	65-135			
Ethyl tert-Butyl Ether (ETBE)	0.0478	0.0050	0.00058	mg/kg	0.0500		96	60-140			
tert-Amyl Methyl Ether (TAME)	0.0511	0.0050	0.00064	mg/kg	0.0500		102	60-140			
Methyl-tert-butyl Ether (MTBE)	0.0502	0.0050	0.0010	mg/kg	0.0500		100	55-145			
tert-Butanol (TBA)	0.251	0.050	0.0047	mg/kg	0.250		100	70-140			
Ethanol	0.456	0.30	0.055	mg/kg	0.500		91	35-165			
<i>Surrogate: Dibromoformmethane</i>	0.0490			mg/kg	0.0500		98	80-125			
<i>Surrogate: Toluene-d8</i>	0.0525			mg/kg	0.0500		105	80-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0472			mg/kg	0.0500		94	80-120			

**Del Mar Analytical, Irvine**  
 Wendy Kirkeeng  
 Project Manager

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 Attention: Cathy Sanford

Project ID: ARCO 6152, Newhall

Report Number: INK1713

Sampled: 11/23/04

Received: 11/23/04

### METHOD BLANK/QC DATA

### BTEX/OXYGENATES by GC/MS (EPA 5035/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Data Qualifiers
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Batch: 4K26027 Extracted: 11/26/04

LCS Dup Analyzed: 11/26/04 (4K26027-BSD1)

Benzene	0.0500	0.0020	0.00050	mg/kg	0.0500		100	70-120	3	20
Ethylbenzene	0.0465	0.0020	0.00051	mg/kg	0.0500		93	75-125	5	20
Toluene	0.0464	0.0020	0.00091	mg/kg	0.0500		93	75-120	3	20
o-Xylene	0.0470	0.0020	0.00047	mg/kg	0.0500		94	80-125	5	20
m,p-Xylenes	0.0974	0.0020	0.00075	mg/kg	0.100		97	80-125	6	20
Xylenes, Total	0.144	0.0040	0.00075	mg/kg	0.150		96	80-125	5	20
Di-isopropyl Ether (DIPE)	0.0498	0.0050	0.00035	mg/kg	0.0500		100	65-135	1	20
Ethyl tert-Butyl Ether (ETBE)	0.0472	0.0050	0.00058	mg/kg	0.0500		94	60-140	1	20
tert-Amyl Methyl Ether (TAME)	0.0498	0.0050	0.00064	mg/kg	0.0500		100	60-140	3	20
Methyl-tert-butyl Ether (MTBE)	0.0486	0.0050	0.0010	mg/kg	0.0500		97	55-145	3	25
tert-Butanol (TBA)	0.223	0.050	0.0047	mg/kg	0.250		89	70-140	12	20
Ethanol	0.416	0.30	0.055	mg/kg	0.500		83	35-165	9	30
Surrogate: DibromoFluoromethane	0.0508			mg/kg	0.0500		102	80-125		
Surrogate: Toluene-d8	0.0519			mg/kg	0.0500		104	80-120		
Surrogate: 4-BromoFluorobenzene	0.0472			mg/kg	0.0500		94	80-120		

Batch: 4K29030 Extracted: 11/29/04

Blank Analyzed: 11/29/04 (4K29030-BLK1)

Benzene	ND	0.0020	0.00050	mg/kg						
Ethylbenzene	ND	0.0020	0.00051	mg/kg						
Toluene	ND	0.0020	0.00091	mg/kg						
o-Xylene	ND	0.0020	0.00047	mg/kg						
m,p-Xylenes	ND	0.0020	0.00075	mg/kg						
Xylenes, Total	ND	0.0040	0.00075	mg/kg						
Di-isopropyl Ether (DIPE)	ND	0.0050	0.00035	mg/kg						
Ethyl tert-Butyl Ether (ETBE)	ND	0.0050	0.00058	mg/kg						
tert-Amyl Methyl Ether (TAME)	ND	0.0050	0.00064	mg/kg						
Methyl-tert-butyl Ether (MTBE)	ND	0.0050	0.0010	mg/kg						
tert-Butanol (TBA)	ND	0.050	0.0047	mg/kg						
Ethanol	ND	0.30	0.055	mg/kg						
Surrogate: DibromoFluoromethane	0.0519			mg/kg	0.0500		104	80-125		
Surrogate: Toluene-d8	0.0533			mg/kg	0.0500		107	80-120		
Surrogate: 4-BromoFluorobenzene	0.0475			mg/kg	0.0500		95	80-120		

**Del Mar Analytical, Irvine**

Wendy Kirkeeng  
 Project Manager

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 Attention: Cathy Sanford

Project ID: ARCO 6152, Newhall

Report Number: INK1713

Sampled: 11/23/04

Received: 11/23/04

### METHOD BLANK/QC DATA

### BTEX/OXYGENATES by GC/MS (EPA 5035/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
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Batch: 4K29030 Extracted: 11/29/04

**LCS Analyzed: 11/29/04 (4K29030-BS1)**

Benzene	0.0548	0.0020	0.00050	mg/kg	0.0500		110	70-120			
Ethylbenzene	0.0517	0.0020	0.00051	mg/kg	0.0500		103	75-125			
Toluene	0.0494	0.0020	0.00091	mg/kg	0.0500		99	75-120			
o-Xylene	0.0519	0.0020	0.00047	mg/kg	0.0500		104	80-125			
m,p-Xylenes	0.107	0.0020	0.00075	mg/kg	0.100		107	80-125			
Xylenes, Total	0.159	0.0040	0.00075	mg/kg	0.150		106	80-125			
Di-isopropyl Ether (DIPE)	0.0565	0.0050	0.00035	mg/kg	0.0500		113	65-135			
Ethyl tert-Butyl Ether (ETBE)	0.0550	0.0050	0.00058	mg/kg	0.0500		110	60-140			
tert-Amyl Methyl Ether (TAME)	0.0611	0.0050	0.00064	mg/kg	0.0500		122	60-140			
Methyl-tert-butyl Ether (MTBE)	0.0617	0.0050	0.0010	mg/kg	0.0500		123	55-145			LO
tert-Butanol (TBA)	0.223	0.050	0.0047	mg/kg	0.250		89	70-140			LO
Ethanol	0.465	0.30	0.055	mg/kg	0.500		93	35-165			
Surrogate: DibromoFluoromethane	0.0535			mg/kg	0.0500		107	80-125			
Surrogate: Toluene-d8	0.0530			mg/kg	0.0500		106	80-120			
Surrogate: 4-BromoFluorobenzene	0.0490			mg/kg	0.0500		98	80-120			

**Matrix Spike Analyzed: 11/29/04 (4K29030-MS1)**

						Source: INK1631-22				
Benzene	0.0488	0.0020	0.00050	mg/kg	0.0469	ND	104	65-130		
Ethylbenzene	0.0470	0.0020	0.00051	mg/kg	0.0469	ND	100	70-135		
Toluene	0.0447	0.0020	0.00091	mg/kg	0.0469	ND	95	70-125		
o-Xylene	0.0461	0.0020	0.00047	mg/kg	0.0469	ND	98	70-125		
m,p-Xylenes	0.0976	0.0020	0.00075	mg/kg	0.0938	ND	104	70-130		
Xylenes, Total	0.144	0.0040	0.00075	mg/kg	0.141	ND	102	70-130		
Di-isopropyl Ether (DIPE)	0.0494	0.0050	0.00035	mg/kg	0.0469	ND	105	65-145		
Ethyl tert-Butyl Ether (ETBE)	0.0476	0.0050	0.00058	mg/kg	0.0469	ND	101	60-145		
tert-Amyl Methyl Ether (TAME)	0.0533	0.0050	0.00064	mg/kg	0.0469	0.0017	110	60-150		
Ethanol	0.463	0.30	0.055	mg/kg	0.469	ND	99	30-165		
Surrogate: DibromoFluoromethane	0.0494			mg/kg	0.0469		105	80-125		
Surrogate: Toluene-d8	0.0502			mg/kg	0.0469		107	80-120		
Surrogate: 4-BromoFluorobenzene	0.0452			mg/kg	0.0469		96	80-120		

**Del Mar Analytical, Irvine**  
 Wendy Kirkeeng  
 Project Manager

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 Attention: Cathy Sanford

Project ID: ARCO 6152, Newhall

Report Number: INK1713

Sampled: 11/23/04

Received: 11/23/04

### METHOD BLANK/QC DATA

### BTEX/OXYGENATES by GC/MS (EPA 5035/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
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Batch: 4K29030 Extracted: 11/29/04

**Matrix Spike Dup Analyzed: 11/29/04 (4K29030-MSD1)**

**Source: INK1631-22**

Benzene	0.0496	0.0020	0.00050	mg/kg	0.0473	ND	105	65-130	2	20
Ethylbenzene	0.0471	0.0020	0.00051	mg/kg	0.0473	ND	100	70-135	0	25
Toluene	0.0450	0.0020	0.00091	mg/kg	0.0473	ND	95	70-125	1	20
o-Xylene	0.0471	0.0020	0.00047	mg/kg	0.0473	ND	100	70-125	2	25
m,p-Xylenes	0.0967	0.0020	0.00075	mg/kg	0.0947	ND	102	70-130	1	25
Xylenes, Total	0.144	0.0040	0.00075	mg/kg	0.142	ND	101	70-130	0	25
Di-isopropyl Ether (DIPE)	0.0499	0.0050	0.00035	mg/kg	0.0473	ND	105	65-145	1	25
Ethyl tert-Butyl Ether (ETBE)	0.0481	0.0050	0.00058	mg/kg	0.0473	ND	102	60-145	1	30
tert-Amyl Methyl Ether (TAME)	0.0547	0.0050	0.00064	mg/kg	0.0473	0.0017	112	60-150	3	25
Ethanol	0.450	0.30	0.055	mg/kg	0.473	ND	95	30-165	3	40
<i>Surrogate: DibromoFluoromethane</i>	0.0491			mg/kg	0.0473		104	80-125		
<i>Surrogate: Toluene-d8</i>	0.0506			mg/kg	0.0473		107	80-120		
<i>Surrogate: 4-BromoFluorobenzene</i>	0.0456			mg/kg	0.0473		96	80-120		

**Del Mar Analytical, Irvine**  
 Wendy Kirkeeng  
 Project Manager

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# Del Mar Analytical

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SECOR International, Inc.-Orange County  
11085 Knott Ave, Suite B  
Cypress, CA 90630  
Attention: Cathy Sanford

Project ID: ARCO 6152, Newhall

Report Number: INK1713

Sampled: 11/23/04

Received: 11/23/04

## DATA QUALIFIERS AND DEFINITIONS

- DU** Insufficient sample quantity for matrix spike/dup matrix spike  
**J,DX** EPA Flag - Estimated value, Value < lowest standard (MQL), but > than MDL  
**LO** MS and/or MSD result unavailable. Batch accept. based on LCS rec.  
**ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.  
**RPD** Relative Percent Difference

## ADDITIONAL COMMENTS

### For 8260 analyses:

Due to the high water solubility of alcohols and ketones, the calibration criteria for these compounds is <30% RSD.  
The average % RSD of all compounds in the calibration is 15%, in accordance with EPA methods.

### For GRO (C4-C12):

GRO (C4-C12) is quantitated against a gasoline standard. Quantitation begins immediately following the methanol peak.

## 8015 Analysis EDF Parlabel Cross Reference

Analyte	EDF	Parlabel
GRO (C4 - C12)		GROC4C12

**Del Mar Analytical, Irvine**  
Wendy Kirkeeng  
Project Manager

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Project ID: ARCO 6152, Newhall

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Sampled: 11/23/04

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### Certification Summary

#### Del Mar Analytical, Irvine

Method	Matrix	NELAP	CA
EPA 8015B	Soil	X	X
EPA 8015B	Water	X	X
EPA 8260B	Soil	X	X
EPA 8260B	Water	X	X

*NV and NELAP provide analyte specific accreditations. Analyte specific information for Del Mar Analytical may be obtained by contacting the laboratory or visiting our website at [www.dmalabs.com](http://www.dmalabs.com).*

Del Mar Analytical, Irvine  
Wendy Kirkeeng  
Project Manager

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## Chain of Custody Record

Project Name: SITE DEMOLITION  
 BP BU/AR Region/Bufo Segment: San Diego/West LA  
 State or Lead Regulatory Agency: Public Works - LA County  
 Requested Due Date (mm/dd/yy):

### SITE DEMOLITION

On-site Time: Temp:  
 Off-site Time: Temp:  
 Sky Conditions:  
 Meteorological Events:  
 Wind Speed: Direction:

Item No.	Sample Description	Time	Date	Soil/Solid	Water/Liquid	Air	Laboratory No.	No. of Containers	Unpreserved	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	Proximate	Preservative	Requested Analysis										Sample Point Lat/Long and Comments					
															BTEX/OXY/ET (8260)	GRO-C4-C14 (8015M)	HC	CH <sub>4</sub>	NO <sub>x</sub>	NO <sub>2</sub>	SO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>	OC	EC	OC/EC	OC/PM <sub>2.5</sub>	OC/PM <sub>10</sub>	OC/NO <sub>2</sub>	OC/NO <sub>x</sub>
1	PL-5-2	10:30	11/23/04	X			JKL17	6	X	X	X	X																		
2	PL-6-2	10:45	11/23/04	X				4		X	X	X																		
3	PL-7-2	10:50	11/23/04	X				6		X	X	X																		
4	EB-6152-20041123	11:10	11/23/04	X				4		X	X	X																		
5	EB-6152-20041123	11:00	11/23/04	X				2		X	X	X																		
6																														
7																														
8																														
9																														
10																														

Specified Instructions:

Custody Seals In Place Yes: No  Temp Blank Yes: No  Cooler Temperature on Receipt: 14 °F/C  Trip Blank Yes: No  BP COC Rev. 4 10/10/04

Distribution: White Copy - Laboratory / Yellow Copy - BP/Atlantic Richfield Co. / Pink Copy - Consultant/Contractor

## **APPENDIX G**

### **Compaction Testing Report**

# GEOBASE, INC.

Soil/Rock Mechanics and Foundation Engineering

MR. GLENN F. BARTON  
400 Galleon Way  
Seal Beach, California 90740

December 10, 2004

Project No.: E.131.19.00

Dear Mr. Barton

**Subject: COMPACTION REPORT ON BACKFILL OF EXCAVATIONS**  
24018 Lyons Avenue  
Santa Clarita, California

This report summarizes observations and compaction testing performed during the backfilling of three (3) excavations at the subject site. The Site Plan is given as Figure 1, attached.

## TESTING PROCEDURES

Field density tests were compared to laboratory tests of the same soil types. Maximum dry density/optimum moisture content relationships for the backfill soils used are presented on Table I, attached. The laboratory standard of compaction used was ASTM D 1557 (Five-Layer Method).

Approximate locations of in-place density tests are shown on the Site Plan, Figure 1, attached. These in-place density tests were performed in accordance with ASTM D 2922 and D 3017 (Nuclear Gauge Method), and ASTM D 1556 (Sand Cone Method). Fill soils were also probed between test locations. The test results are presented in Table II, Results of Compaction Tests, attached.

## EXCAVATION

Excavation operations at the site resulted in three (3) excavation pits with the following approximate dimensions:

Excavation	Width (Ft)	Length (Ft)	Depth (Ft)
Pit No. 1	37.0	59.0	10.0
Pit No. 2	15.0	52.0	1.5
Pit No. 3	9.0	38.0	1.0

The locations of the excavation pits are shown on the Site Plan, Figure 1, attached.

## SOIL TYPES

The backfill soils consisted of imported light brown, silty sands, and on-site pea gravel mixed with the imported light brown, silty sands.

E.131.1B.00  
December 10, 2004

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TABLE II  
RESULTS OF COMPACTION TESTS  
ASTM D 2922, D 3017 AND D 1556

TEST NO.	DATE (mm/dd/yy)	APPROXIMATE DEPTH (FEET)	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	MAXIMUM DRY DENSITY (PCF)	RELATIVE COMPACTION (%)
15	12/07/04	-6.0	7	131.1	138.0	95
2	12/07/04	-6.0	8	130.2	138.0	94
3*	12/07/04	-7.0	7	119.2	138.0	88
3A	12/07/04	-7.0	8	128.9	138.0	93
4	12/07/04	-7.0	8	129.4	138.0	94
5	12/07/04	-6.0	6	131.3	138.0	95
5*	12/07/04	-6.0	7	122.0	138.0	88
5A	12/07/04	-6.0	5	126.1	138.0	91
7	12/07/04	-5.0	6	129.4	138.0	94
8	12/07/04	8.0	6	130.7	138.0	95
9	12/07/04	-4.0	7	126.2	138.0	93
10	12/07/04	-3.5	6	125.3	138.0	91
11	12/07/04	-3.0	7	126.1	138.0	91
12	12/08/04	-2.0	6	126.8	138.0	91
13	12/08/04	-2.0	9	121.2	138.0	82
14*	12/08/04	-2.0	8	120.8	138.0	88
14A	12/08/04	-2.0	6	124.8	138.0	90
15S	12/08/04	-1.0	10	122.0	132.0	92
16	12/08/04	-1.0	10	119.5	132.0	91
17	12/08/04	Subgrade	12	112.0	132.0	80
18	12/08/04	Subgrade	10	118.8	132.0	91
19	12/08/04	Subgrade	12	119.4	132.0	90
20	12/08/04	Subgrade	7	125.6	138.0	91
21	12/08/04	Subgrade	6	125.2	138.0	91
22S	12/08/04	Subgrade	7	129.2	138.0	92

NOTES:  
 - Denotes Failed Tests  
 A, B, C, ... Denotes Re-Tests After Material Reworked  
 S Denotes Sand Cone Method (ASTM D 1556)

GEOBASE, INC.

E.131.19.00  
December 10, 2004

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TABLE I  
MAXIMUM DRY DENSITY/OPTIMUM MOISTURE CONTENT  
ASTM D 1557

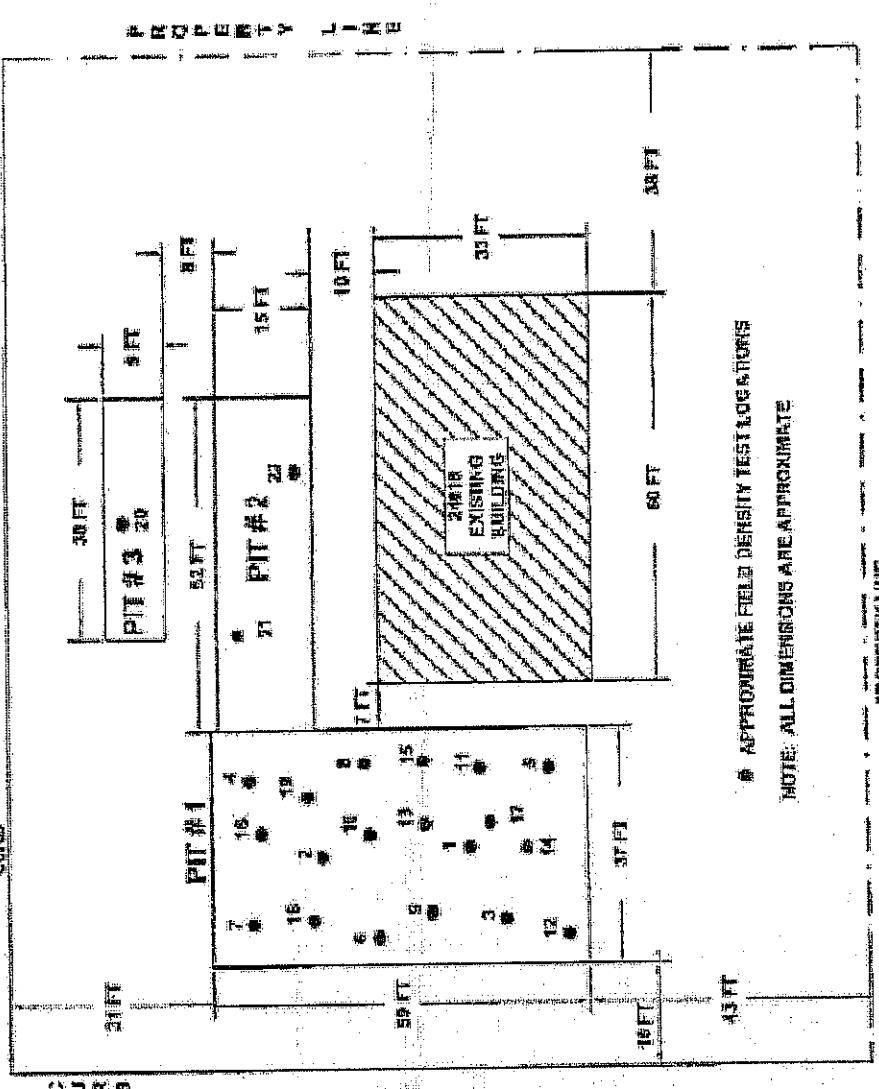
SOIL TYPE	SOIL DESCRIPTION	MAXIMUM DRY DENSITY (PCF)	OPTIMUM MOISTURE CONTENTS (%)
SM/GM	MIX - PEA GRAVEL (On-Site) and SAND, light brown, some silt (Import)	138.0	8.5
SM	SAND, light brown, some silt (Import)	132.0	10.0

GEOBASE, INC.

N ↑

LYONS AVENUE

CURB



GEOBASE

SITE PLAN

26018 LYONS AVENUE  
SANTA CLARITA, CALIFORNIA

FIGURE 1

E.131.19.00

E.131.19.00  
December 10, 2004

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## FILL PLACEMENT

Subsequent to excavation, fill soils were placed in approximately eight (8) inch lifts, brought to near optimum moisture content and compacted. The backfill soils were compacted to a minimum of ninety (90) percent of the maximum dry density, where tested, as determined by ASTM D 1557. The soils were compacted with a track loader. Results of the field density tests are provided in Table II and test locations are shown on Figure 1, attached.

Backfilling operations were conducted on December 7 and 8, 2004.

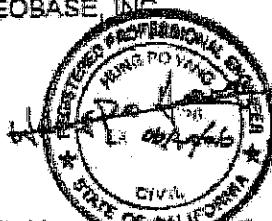
## SUMMARY

The backfill operations, as well as testing services described herein, have been limited to those operations, as noted above, performed on December 7 and 8, 2004. These testing services allow the testing of only a small percentage of the fill placed at the site. Therefore, testing by GEOBASE, INC. during grading does not relieve the contractor of his primary responsibility to perform all work in accordance with the requirements of the regulating agencies and the contract specifications.

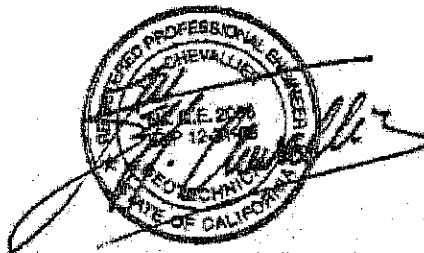
Services performed by GEOBASE, INC. were conducted in accordance with generally accepted geotechnical engineering principles and practices. No other warranty, expressed or implied, is made.

This letter report may be subject to review by the appropriate regulating agencies.

Respectfully submitted  
GEOBASE, INC.



H.P. Yang, P.E., R.C.E.  
R.C.E. 66378  
Senior Engineer



J-M. Chevallier, P.E., G.E.  
R.C.E. 39198; G.E. 2056  
Managing Principal

Attachments:      Figure 1      Site Plan  
                        Table I      Maximum Dry Density/Optimum Moisture Content  
                        Table II     Results of Compaction Tests

G:\NPPDOCS\2003IREPORTS\DIR\1211903 Compaction @ 24016 Lyon Avenue..RPT.wpd

GEOBASE, INC.